

The

# CHEMIST AND DRUGGIST



For Retailer, Wholesaler and Manufacturer

DECEMBER 6 1958

Hark! the herald angels sing, . . . ."

.... even  
better  
with

*allenburys*

**PASTILLES**



LLEN & HANBURY'S LTD

ONDON E 2

# The Beatson Tablet

Now available in  
**AMBER**

- ★ Distinctive SQUARE Shape.
- ★ Black Plastic or White Enamelled Caps.
- ★ Full-automatic Production.
- ★ Prompt Despatch from Stock.
- ★ Available in the following sizes:—  
3 dr.  $\frac{1}{2}$   $\frac{2}{3}$  1  $1\frac{1}{2}$   $1\frac{3}{4}$  2 3  $3\frac{1}{2}$  oz.

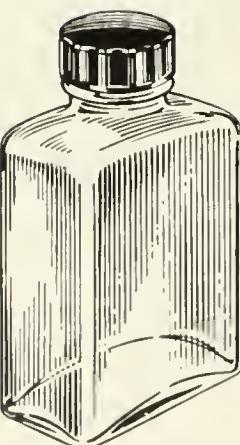
*"The Sign of a Good Bottle"*



Suggested Packs:—  
 $\frac{1}{2}$ -oz.—25 Aspirin.  
1-oz.—50 Aspirin or  
25 Codeine.  
 $1\frac{1}{2}$ -oz.—100 Aspirin or  
50 Codeine.  
 $3\frac{1}{2}$ -oz.—100 Codeine.

**Beatson, Clark & Co., Ltd.**

GLASS BOTTLE MANUFACTURERS  
ROTHERHAM ESTABLISHED 1751 YORKS.



**Be sure to specify BEATSON**

HIGHEST TOLERATION  
PRACTICAL  
DOSAGE COMBINATIONS  
SATISFACTORY  
CLINICAL RESPONSE

*Physicians therefore specify*

# Calcium B-PAS WANDER

*and*

# B-Pasinah WANDER

(calcium B-PAS Wander plus isoniazid)

*in the domiciliary  
Chemotherapy of Tuberculosis*

**B-PAS (Wander)**, 4-benzoylamino-2-hydroxybenzoic acid, first introduced by our Research Laboratories in 1948, is the drug of choice in regimens comprising PAS in concurrent therapy.

In the form of its calcium salt, it induces only minimal side-effects as compared with sodium PAS, and because of its high acceptability guarantees as far as possible that domiciliary patients take their medication.

### CALCIUM B-PAS (Wander)

Powders: Tins of 150 and 400 x 3.5g. envelopes  
Cachets: " " 80 and 400 x 1.0g.

Also available: Sodium B-PAS (Wander)  
in 1.5g. Cachets.



### 'B-PASINAH' (B-PAS plus Isoniazid)

Powders: Calcium B-PAS (Wander) 3.5g.	..	..	..
Isoniazid .. .. ..	87.5mg.		
Tins of 150 and 400			
Cachets: Calcium B-PAS (Wander) 1g.	..	..	..
Isoniazid .. .. ..	25mg.		
Tins of 100 and 500			

Price details of all forms of PAS from the Medical Dept.

*All Wander tuberculostatic products are available from usual wholesalers or direct from*

**A. WANDER LIMITED, 42 UPPER GROSVENOR ST., GROSVENOR SQ., LONDON W.1**

# Yes! WATE-ON IS AN ALL-YEAR-ROUND SELLER!

*Supported by all-year-round advertising.*

Wate-On scored a brilliant success in its first spring and summer season. Now it's moving into its winter sales-phase — with big, widespread, consistent advertising to match. Prove for yourself this winter — Wate-On sells and sells all the year round.

## NATIONAL CAMPAIGN

You'll see Wate-On advertising frequently in all the national, mass-circulation papers — in a campaign that means money spent over *your* counter.

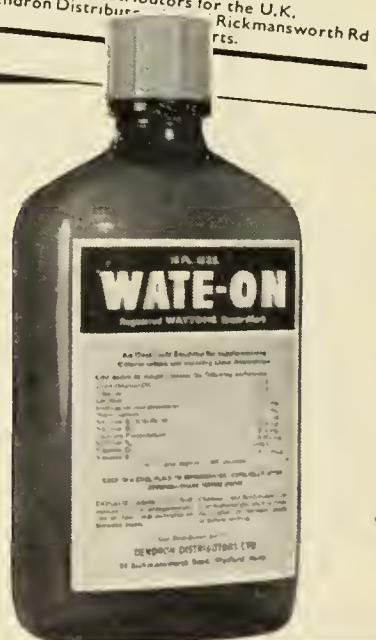
# 5/10 PROFIT PER BOTTLE

Big new winter sales-push. Wate-On retails at 17/6, giving 5/10 profit on every bottle you sell. So stock up now and take full advantage of this big winter sales-push. Full terms from the sole distributors in U.K.:— Dendron Distributors Ltd., 94 Rickmansworth Road, Watford, Herts.



*Try amazing new*  
**WATE-ON**  
THE COMPLETE FOOD SUPPLEMENT

17/6 per 16oz. bottle  
Sole distributors for the U.K.,  
Dendron Distributors, 94 Rickmansworth Rd,  
Herts.



# BROMIDES

POTASSIUM BROMIDE  
SODIUM BROMIDE  
AMMONIUM BROMIDE  
POTASSIUM BROMATE  
SODIUM BROMATE

FOR SPOT DELIVERY AND ON CONTRACT

**R. W. GREEFF & Co. Ltd.**

**GARRARD HOUSE**

**31/45 GRESHAM STREET, LONDON, E.C.2**

**Manchester**

**Birmingham**



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A WONDERFUL  
RANGE  
WITH  
DEFINITE  
SALES  
APPEAL

There's a Cannon hot water bottle to suit every age. From the Baby, Noah's Ark and Cottage Doll series through to the heavy general purpose Radiator they're all attractively made to give a long and useful life.

When you recommend a Cannon, you can't go wrong!

The attractive colours and ingenious packs mean increased sales appeal on your shelves, and all are made from high quality rubber.

ASK YOUR  
WHOLESALE FOR  
PARTICULARS

★ ORDER NOW

THE CANNON RUBBER MANUFACTURERS LTD.  
Cannon Works, Ashley Road, Tottenham, London, N.17

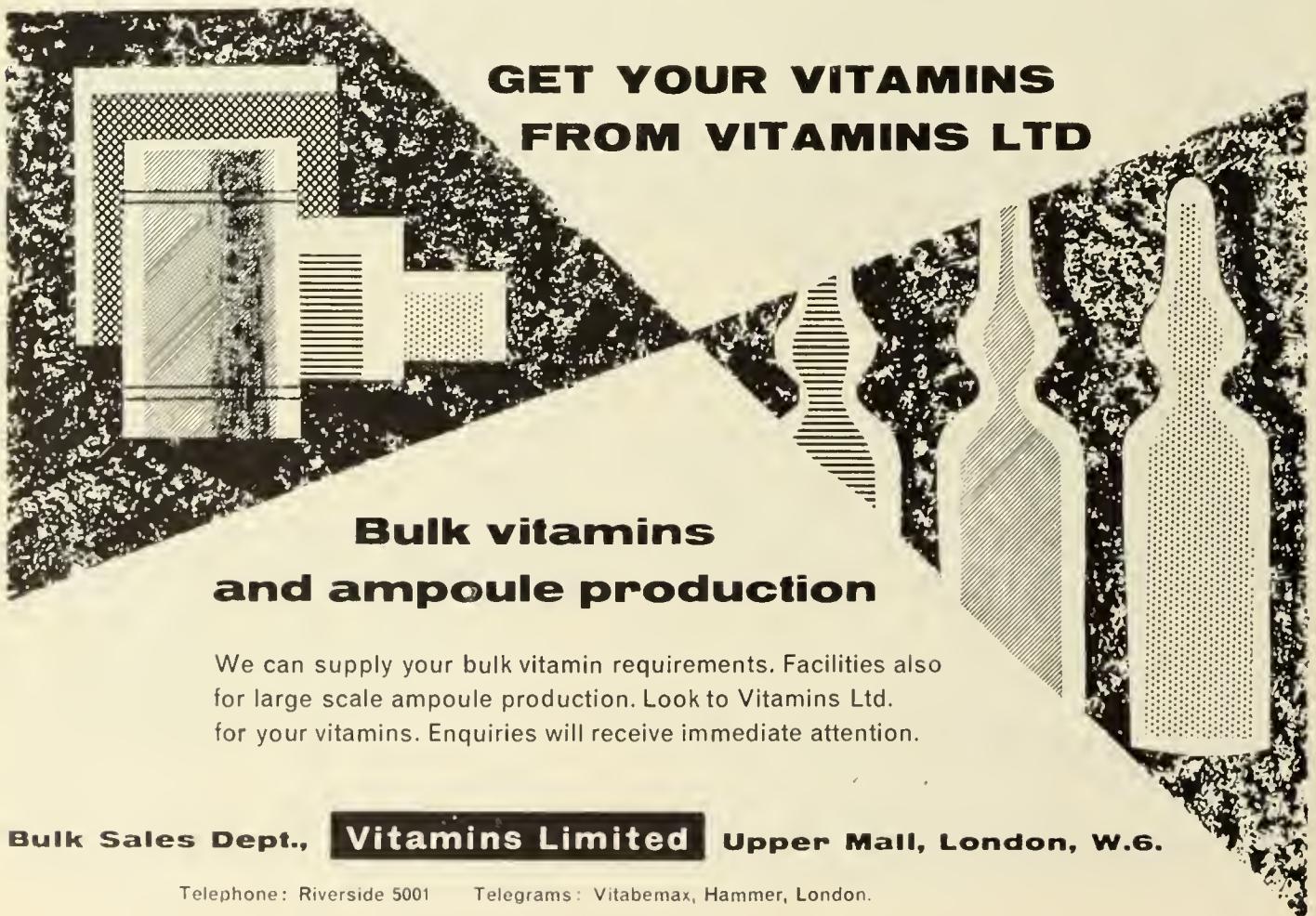
Cannon Rubber  
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**GET YOUR VITAMINS  
FROM VITAMINS LTD**

**Bulk vitamins  
and ampoule production**

We can supply your bulk vitamin requirements. Facilities also for large scale ampoule production. Look to Vitamins Ltd. for your vitamins. Enquiries will receive immediate attention.

**Bulk Sales Dept., Vitamins Limited Upper Mall, London, W.6.**

Telephone: Riverside 5001      Telegrams: Vitabemax, Hammer, London.

**OVER 12 MILLION READERS OF THE  
DAILY EXPRESS  
WILL SEE THIS EYE-CATCHING  
REMINGTON ADVERTISEMENT ON DEC. 10th**

Display your  
**Remington**  
 shavers...in the window...on the counter  
 and win **EXTRA XMAS PROFITS!**

THE  
SERVICE FOR PHARMACISTS

Manufacturing • Packaging  
HIGHEST QUALITY PRODUCTS

Unique counter display material

Own Name—Own Brand packs—10 designs  
and a Post paid, daily, breakage free

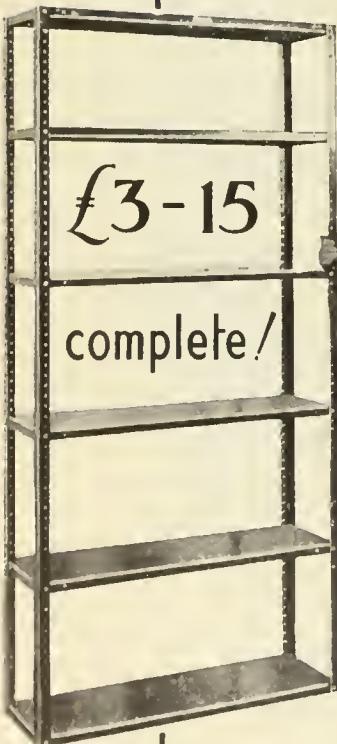
Bulk Tablet delivery

FOR COUNTER LINES THAT KEEP CUSTOM

**ARTHUR H. COX & CO. LTD**  
BRIGHTON - ENGLAND  
Manufacturing Chemists since 1839

# STEEL SHELVING

72" HIGH 34" WIDE 12" DEEP



- Brand new—Manufactured in our own works.
- Shelves adjustable every inch.
- Heavy gauge shelves will carry 400 lb. each.
- 6 shelves per bay—Extra shelves 8/- each.
- Stove enamelled dark green.
- Quantity discounts.
- Also available in white at £5 per bay.

**DELIVERED FREE £3 15s.**

Ready for Erection in England, Scotland and Wales

ALL OTHER SIZES available at equally keen prices

**N. C. BROWN LTD.**

SHELVING DIVISION  
HEYWOOD, LANCASHIRE  
TELEPHONE: 69018 (3 LINES)



## Deep roots...

In the highly specialised sphere of drug growing, Ransom's roots go deep. Founded more than a century ago, the Company can claim a vast fund of experience that has long been acknowledged around the world. And Ransoms is a truly *progressive* organisation . . . always seeking still better methods of cultivation . . . always developing still newer strains of medicinal plants on the Company's drug-growing farms at St. Ives. Ransoms look energetically to a future in which drugs and galenicals will continue to fill a vital role, for nature often provides the best measures against diseases, despite today's use of synthetic drugs.

EXTRACTS • TINCTURES • ESSENTIAL OILS • RESINS • CHLOROPHYLL

*Actual growers of*

BELLADONNA • HENBANE • FOXGLOVE • PEPPERMINT • LAVENDER

*Samples and quotations gladly supplied*



**WILLIAM RANSOM & SON LIMITED**

Established 1846      Hitchin • Hertfordshire • England

You *might* find  
**BROMIDES & IODIDES**  
here

but *your* best source of supply  
is the **M&B** range of pharmaceutical chemicals.  
The range includes:

AMMONIUM BROMIDE B.P.C.

CALCIUM BROMIDE B.P.C. 1949

POTASSIUM BROMIDE B.P. CRYST. AND POWDER

SODIUM BROMIDE B.P.

STRONTIUM BROMIDE B.P.C. 1934

IODINE B.P. RESUBLIMED

IODOFORM B.P.C. POWDER

POTASSIUM IODIDE B.P. CRYST.

*Detailed information is available on request*

**M&B**  
*for for*  
*pharmaceuticals*

MANUFACTURED BY

**MAY & BAKER LTD. • DAGENHAM**

Telephone: DOMinion 3060 • Extension 317

PHAI001

December, 6, 1958

THE CHEMIST AND DRUGGIST

11





— perfumery, cosmetics

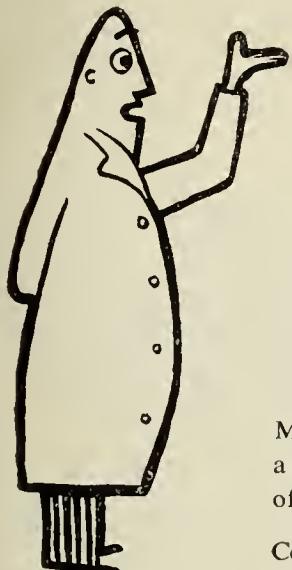


# Bottles of Quality

## *Designers and Manufacturers of High Quality Glassware*

THE INTERNATIONAL BOTTLE CO., LTD.

140 PARK LANE W.1 Telephone MAYfair 6992 (5 lines) Telegrams AUTREFOIS, AUDLEY, LONDON



## Talking about paper

*The paper round Mr. Smith's bottles?*

That's Certor Dispensing Parchment. (A very good bottle-wrapping paper, too.)

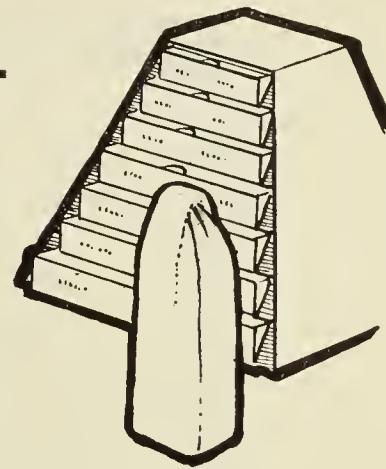
*The cabinet in which he keeps his paper so neatly and conveniently in his dispensary?*

That's the Certor Dispensing Parchment Cabinet. (Keeps his paper flat, unsoiled, compact, convenient.)

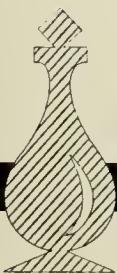
Mr. Smith not only likes good paper for his bottles. He likes a good cabinet for his paper. In other words it's a question of cutting the waste on his cut paper.

Certor Cabinets reduce waste and make for ease of working in other directions, too. For Certor Dispensing Cartons . . . the Certor Dispensing Carton Cabinet. For Certor Screw Caps . . . the Certor Screw Cap Dispenser. For Certor Dispensing Satchels . . . the Certor Dispensing Satchel Cabinet.

These strongly-made cabinets, with medium oak finish, are available at half manufacturing cost with orders. The Screw Cap Dispenser is free with order and bottle contract.



**MACDONALD & SON LTD. of MANCHESTER & LONDON**



PORLAND MILL, ASHTON-UNDER-LYNE, LANCS. 25 HOLYWELL ROW, LONDON, E.C.2  
TELEPHONES: ASHTON-UNDER-LYNE 4422 (10 LINES). BISHOPSGATE 4809 (2 LINES)

**3**

**thram**

### Ends Troublesome Feather-Picking

Cannibalism and persistent feather picking among poultry can now be effectively controlled with the aid of THRAM. Its efficiency as an anti-pecking preparation is due solely to the taste being offensive to poultry. THRAM in 24 hours will practically eliminate cannibalism without any ill effects to the birds whatever.

### THRAM IS NOT AN INSECTICIDE

THRAM is supplied in cans: retailing at 24/-, 45/-, and 160/-.

## BIG PROFIT BUILDERS

*particularly if you serve rural and agricultural areas*

### Wormex

Keeps Poultry, Pigs and Horses  
Worm-free

WORMEX is rapidly becoming recognised as today's most effective discovery for the eradication of worms. Embodying PIPERAZINE as its main ingredient, WORMEX achieves completely successful results by making it possible for worms to be readily eliminated without any unpleasant side effects. Easily administered as a single dose or on a regular dosing basis in feed or in water. Non-toxic and harmless. Retail prices: Obtainable (with full dosing instructions) in tins — 75 weaner doses 15/-, 150 weaner doses 25/-.

### DETHMOR

WARFARIN

Routs the Rodent Menace!

DETHMOR is unquestionably the quickest, safest and cleanest method of ridding rats and mice. Known and used all over the country by farmers and householders alike, it commands a ready sale.

Retail prices:

DETHMOR (concentrate) (makes 20 times as much bait) 1 lb. tin 13/6. 7 lb. tin 73/6. Dethmor PLUSBAIT (mixed ready for use) 3/6, 7/6 and 15/-.

**CARRYING 33½% DISCOUNT for you**  
**C. F. GERHARDT LTD.**

NEW ERA WORKS, PURLEY WAY, CROYDON, SURREY

# THE THERMOS

LIMITED

announce the first of their

## NEW CONSUMER TESTED MODELS

### CONSUMER TESTED FOR EVEN GREATER SALES

Quietly but thoroughly during 1958 the great fund of knowledge and experience of the Thermos Company has been supplemented by consumer research. What designs or colours did consumers prefer? What was their preference for a type of closure? What were their views on existing vacuum flasks? From the answers to these and many other questions, plus Thermos' know-how and exhaustive testing, has come the Thermos '59 range of vacuum flasks. Consumer tested for even

### The IMPROVED No. 15 range

For 1959 the IMPROVED No. 15 flask range (four sizes) will include the consumer selected designs and colours. With new sure-seal hygienic lock-on stopper, ensuring leak-proof closure. It snaps on and lifts off EASILY.

No germ traps in this  
**POURER LIP-SNAP STOPPER**

with Sure-Seal hygienic lock-on stopper



Extended lip and new manufacturing technique ensures simple on and off movement

New contour provides greater sealing efficiency

With improved easy to use "lock on" stopper

Sure blow all-angle  
crevice free pourer lip

Consumer selected designs

A convenient-to-user sizes

Backed by Thermos  
efficiency guarantee

Order through your **HERMOS** wholesaler

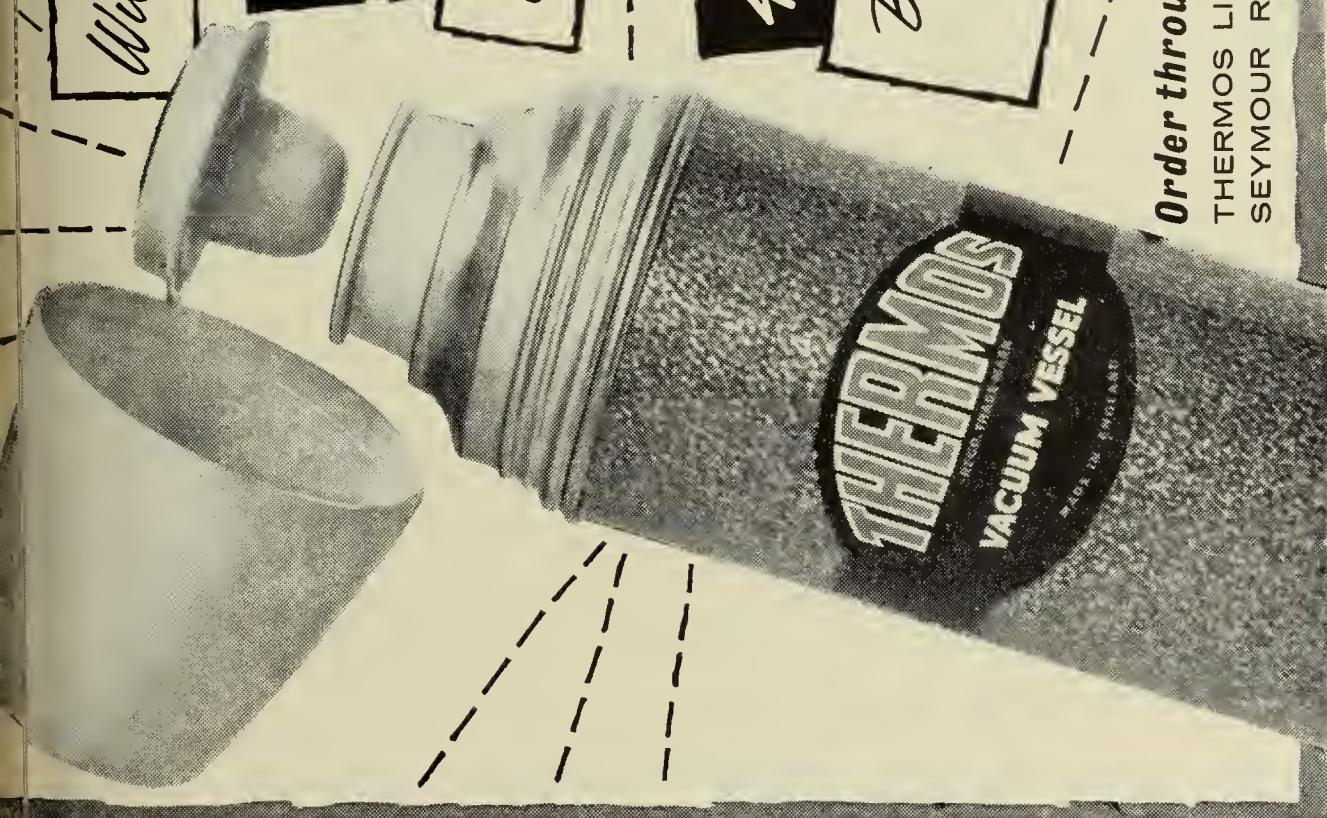
RIGHTHAND TRADE MARK  
THERMOS LIMITED  
SEYMOUR ROAD • LEYTON • LONDON E10

INTENSIVE 1959 SALES  
PROMOTION SUPPORT  
T.V. campaign



In '58 Thermos pioneered  
the way with the first-ever  
vacuum Ware campaign.  
For 1959 plans are bigger  
and more powerful for this  
hard hitting sales medium.  
Full details will be coming  
your way.

PRESS





This striking Display Stand showing the whole range of Scentinel Home Fresheners will make regular sales, profitable sales. Show Scentinel products and they sell themselves. You see them advertised in National Magazines and on TV—so do your customers.



We're telling the Homes of the Nation—  
**GIVE YOUR HOME A MODERN AIR—**  
**HAVE "SCENTINEL" FRESHNESS EVERYWHERE!**

and you can cash in on our campaign



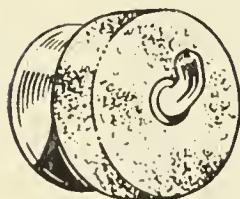
### "QUIFF"

The fragrant air-freshener spray, Aerosol 5/6. Squeeze bottle 3/6. Refills 1/6.



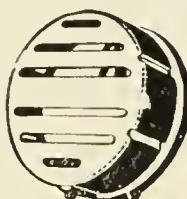
### "WHAM"

The fragrant fly-spray in squeeze bottle 3/6. Refills 1/6. Aerosol 5/6.



### "SWISH"

Toilet bowl cleanser and disinfectant. Held in pan by suction hook. 1/6 complete. Refills 9d.



### "MIKE"

Popular air-freshener in plastic holder, with suction grip. Complete 2/9. Refills 1/3 and 9d.



### "BOBBY"

Attractive new package for hanging in wardrobes or cupboards 2 $\frac{3}{4}$ " square. Refills (also fit "Mike" or any small container) 9d.



### "MINOR"

Fragrant chemical block in unbreakable holder, with suction grip, 1/6 complete. Refills (also fit "Mike" or any small container) 9d.

## DISPLAY STAND FREE!

SEND IN THE COUPON AND GET FULL DETAILS OF OUR FREE OFFER. OUR REPRESENTATIVE WILL CALL AND SET UP THE DISPLAY IN YOUR STORE.

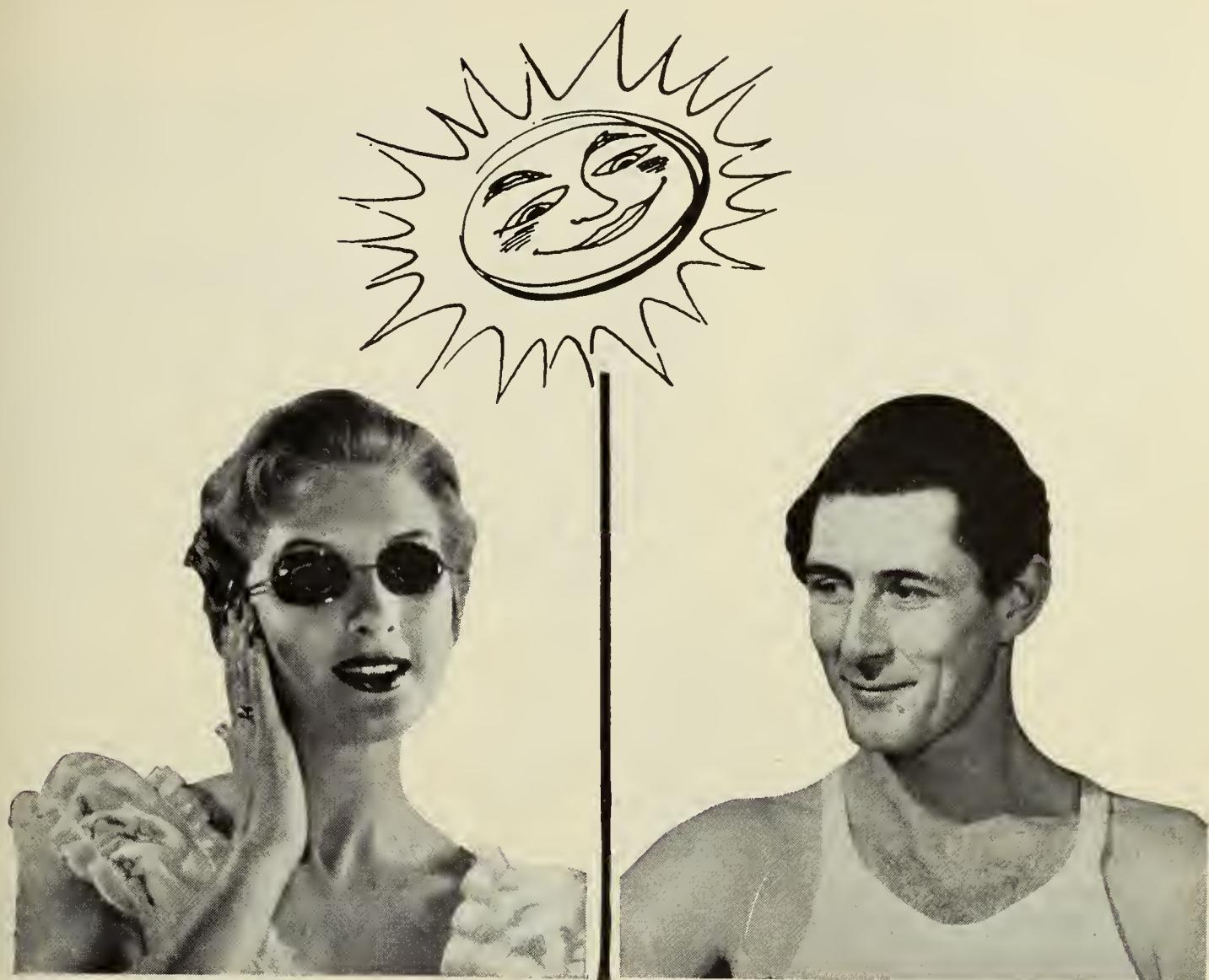
NEW HYGIENE LTD., 266 - 268  
Telephone: NORth 5041-2-3

PLEASE SEND DETAILS OF YOUR DISPLAY STAND OFFER.

NAME.....

ADDRESS.....

HOLLOWAY ROAD, LONDON, N.7  
Telegrams: AIROGENA-HOLWAY, CODE A B C

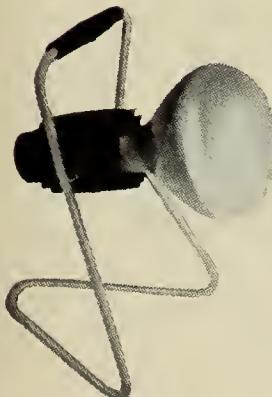


## *Sunshine and Warmth...* for people of all ages

So many people would feel all the better for the stimulating warmth and sunshine provided by Philips Health Lamps. For instance, when used on medical advice, these lamps are often remarkably successful in treating rheumatic complaints and debilitated conditions.

### **Philips Ultra-violet SUNLAMP** (Made in Holland)

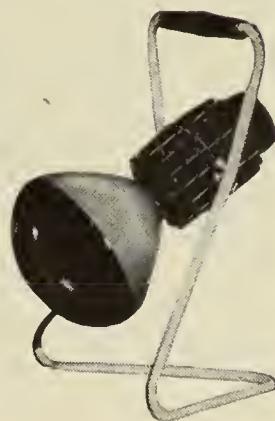
Philips Sunlamp gives the blessing of "Mountain sunshine". Doctors know the value of the right type of sunlight and do not hesitate to recommend the Philips Ultra-violet Sunlamp Price: £5.17.6d. (Including goggles.)



*A doctor's certificate must be presented when either of these lamps is purchased by the public.*

### **Philips Infra-red INFRAPHIL** (Made in Holland)

Philips Infraphil was installed in the medical centres at the last two Olympic Games. It is most valuable in alleviating the pain of arthritis, rheumatism and muscle-strain. Infraphil Infra-red lamp costs only £3.3s.0d. (as illustrated). De-luxe model "A" Price: £4.4s.0d.



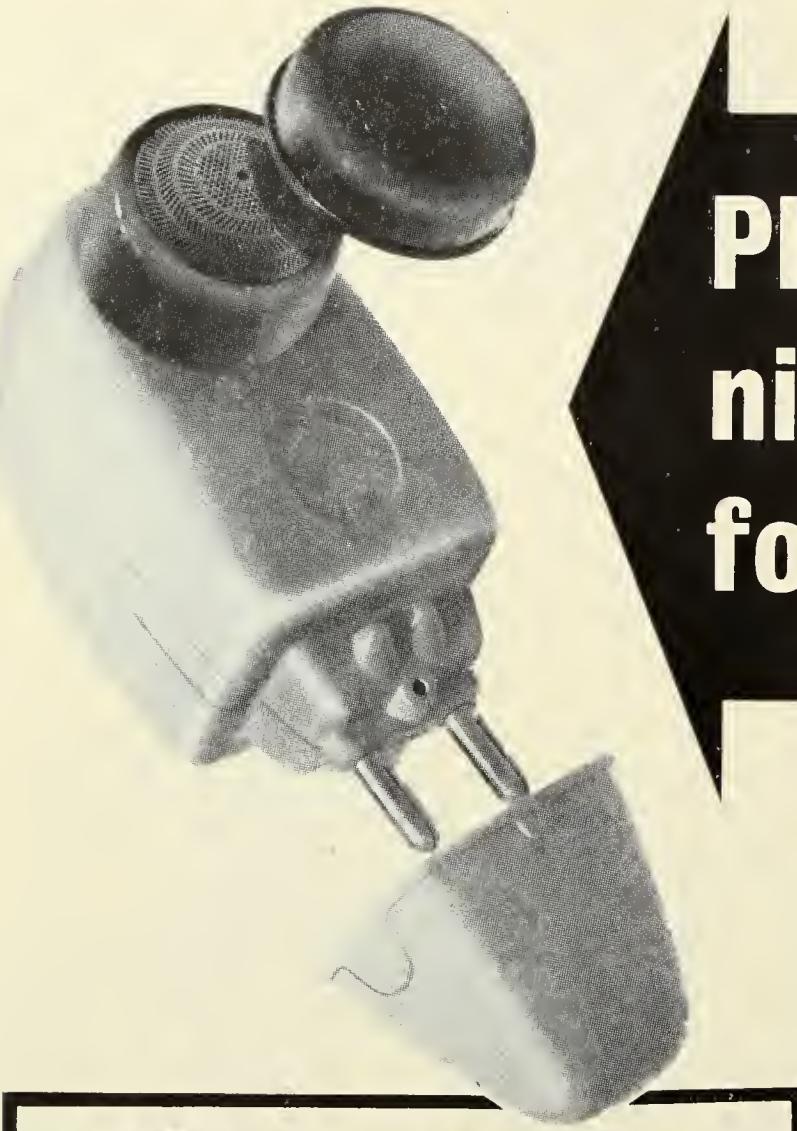
(INF3083)



**PHILIPS ELECTRICAL LTD**

ELECTRICAL APPLIANCES DIVISION

Century House • Shaftesbury Avenue • London • W.C.2



Plug in for a  
night... shave  
for a WEEK!



## NO FLEX OR BATTERIES

Simply plug in to any two-pin a/c socket (110-240 volts) and leave overnight—the TRAVELUX built-in accumulator is charged for a week of easy, trouble-free shaving.

The 4,000 r.p.m. cutting head and screen unscrew for cleaning. Each shaver is supplied complete in zipped leather case, with cleaning brush, is guaranteed for a year, and may be recharged at least 500 times equal to a 5-7 minute shave for at least ten years.

**TRAVELUX**

Rechargeable Dry Shaver

**£8.19.9**

retail

Generous  
trade terms

Here's the dry shaver you'll be proud to recommend! Brilliantly designed and beautifully made, the unique TRAVELUX is *the world's first rechargeable dry shaver*—has all the advantages of a mains model and none of the fuss and fiddle of flex, clockwork or batteries. It's safe, efficient, guaranteed and it's backed by a first-rate after-sales service.

The Perihel TRAVELUX is a natural buy for the man-about-town, the busy executive and the traveller. Stock and display the TRAVELUX in *your* shop now!

## ORDER FROM YOUR USUAL WHOLESALER

LEAFLETS AND DISPLAY MATERIAL  
free on request

For even quicker sales, display the  
TRAVELUX on your counter.

# TRAVELUX

PERIHEL LIMITED

146 NEW CAVENDISH STREET  
LONDON, W.1.

Telephone : LANGham 2411

# Richard Daniel & Son LTD

for

## PACKED GOODS



*Attractively labelled  
and presented*

PRICE LIST ON APPLICATION

**Mansfield Road  
Derby** Tel : 40671 (10 lines)

also at  
Ashton-u-Lyne Tel : 5161 (9 lines)

**Hair nets  
by Byard**  
**'HALO'** Regd.  
**'TANGO'** Regd.  
The greatest names  
in hair nets

Make certain of your share  
of this steady, profitable  
business.

Ask your Wholesaler for the  
full range of "Halo" and  
"Tango" hair nets.

Day Nets • Slumber Nets  
Bun Nets • Setting Nets

**"HALO" N.32**

The popular fine nylon net,  
in single envelopes, 3 doz. or  
6 doz. on Hanging Cards  
or 1 gross in Display Boxes.



**"TANGO" S.118**

Pure silk nets, packed 4 doz.  
on Round Cards or in single  
envelopes 3 or 6 doz. on Hanging  
Cards or 1 gross in Display  
Boxes.



**NATIONALLY ADVERTISED**  
in the popular Womens Magazines  
reaching over  
**9 MILLION WOMEN**  
every month

Made by : — BYARD MANUFACTURING CO. LTD., NOTTINGHAM

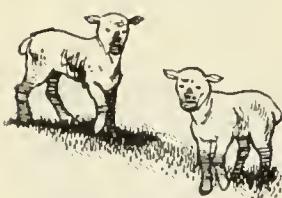
# Calcium Gluconate



Calcium Gluconate is widely accepted as the most satisfactory means of administering calcium. Prescribed medically for numerous ailments, including debility, rickets, dental caries, neurasthenia and in pregnancy.

Taken by the mouth in tablet or powder form Calcium Gluconate is well absorbed and practically tasteless. By injection it produces the minimum of reaction. For full details please write for our booklet.

... and in veterinary practice



Calcium Gluconate is also used in the treatment of conditions such as milk fever, eclampsia and lambing sickness.

Please write for our new leaflet "Calcium Gluconate in Veterinary Practice" for full details.

**KEMBALL, BISHOP**

*Chemicals for Industry*

KEMBALL, BISHOP AND COMPANY LIMITED  
THREE MILL LANE · BROMLEY-BY-BOW · LONDON, E.3  
Tel. ADV 1234 (7 lines). Grams: KEMBALL, BOCHURCH, LONDON

# MORE

attractively-presented packs on show, plus the reputation  
Maw's have for quality, means ...



# MORE

counter sales, because the price is so competitive.  
This gives you ...

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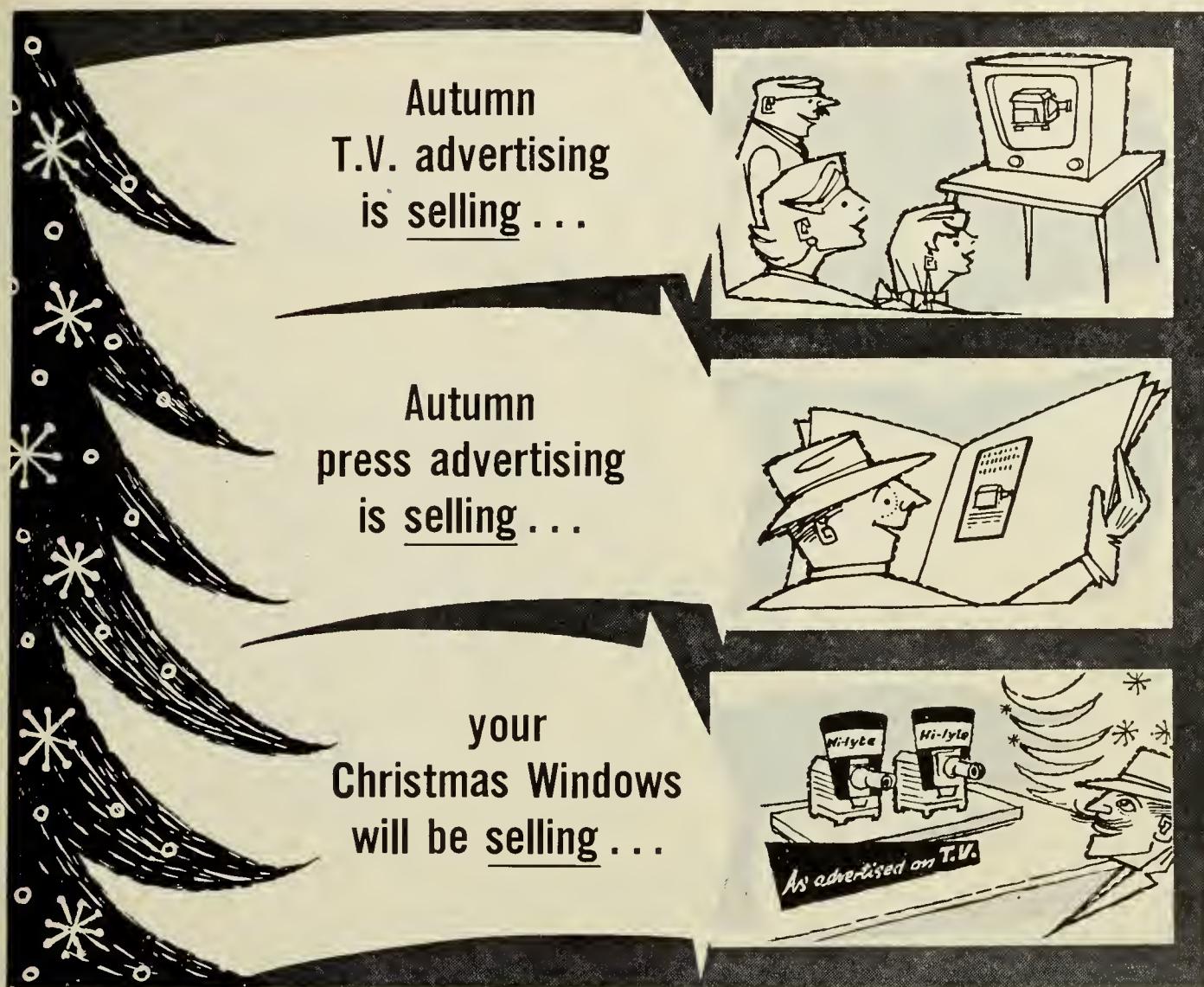
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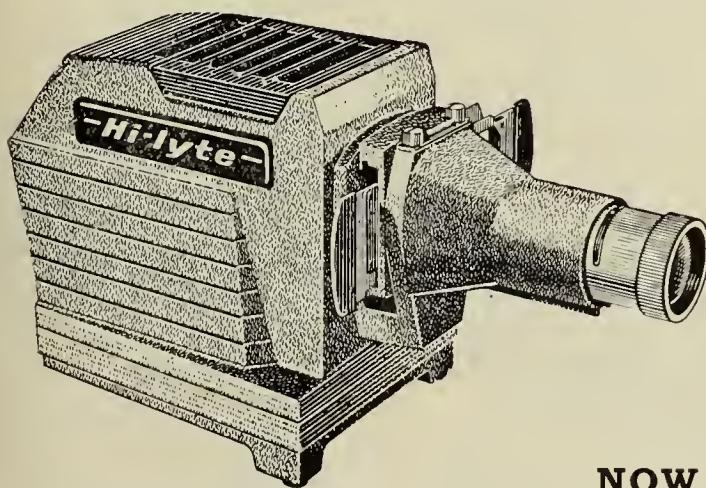


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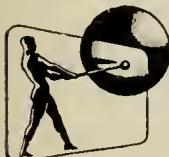


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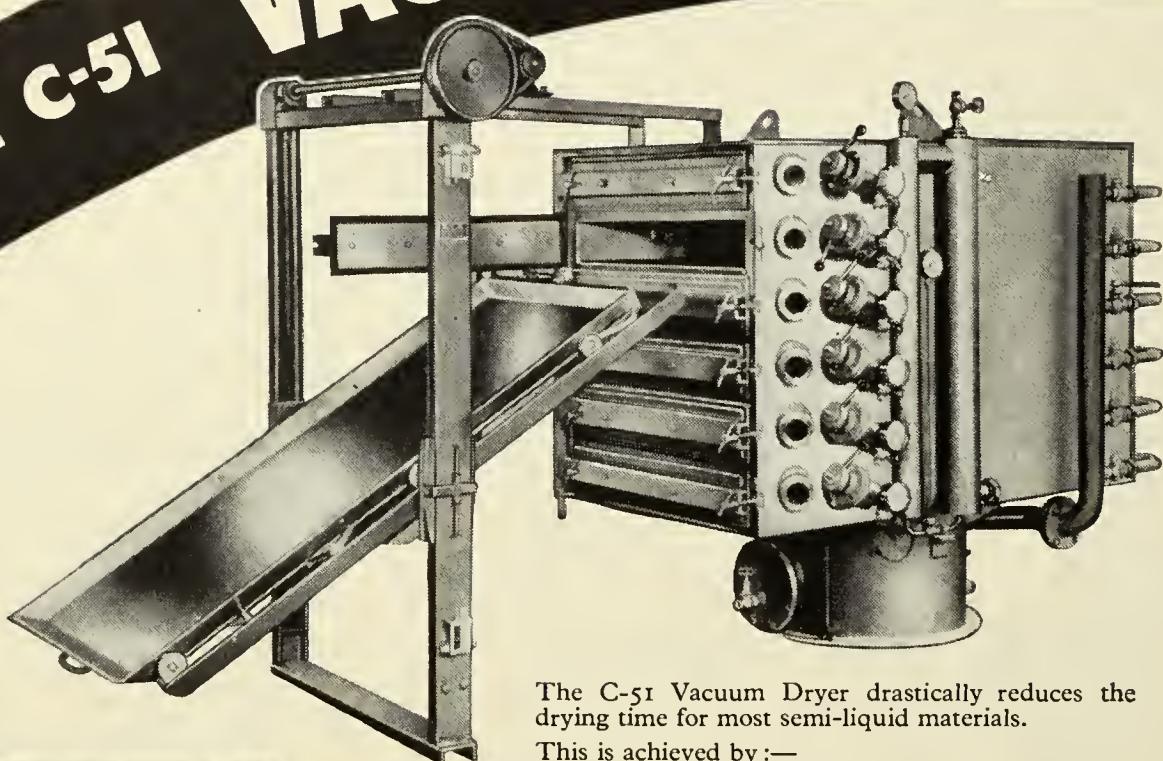
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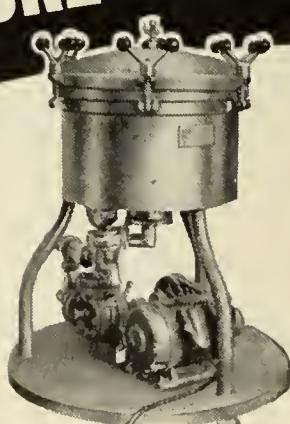
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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and  
all sections of the drug, pharmaceutical and  
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 170

December 6, 1958

No. 4111

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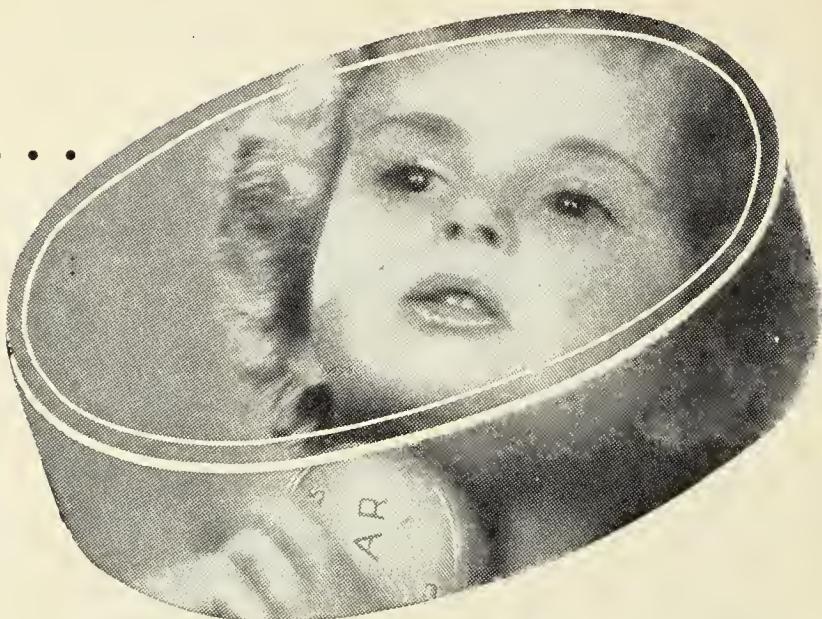
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# The CHEMIST AND DRUGGIST

Volume 170

DECEMBER 6, 1958

No. 4111

## Hospital Pharmacists' Salaries

### 4 PER CENT. INCREASE AGREED

AN offer of a 4 per cent. rise in hospital pharmacists' salaries in settlement of a claim for a cost-of-living increase was accepted by the staff side at a meeting of Committee C of the Pharmaceutical Whitley Council on November 28. The increase is back-dated to November 1.

To avoid difficulties that might arise by increasing existing scales by exactly 4 per cent., the following new scales, adjusted to the nearest £5, have been agreed:—

GRADE	GRADE	SALARY SCALE (£ per annum)
Pharmacist	...	605 by three 30's x one 35 x two 30's x one 25 to 815
Senior Pharmacist	...	675 x one 30 x one 35 x three 30's x one 35 to 865
Chief (I); deputy chief (IV)	...	700 x one 35 x three 30's x one 35 x two 30's x one 25 to 945
Chief (II); deputy chief (V)	...	755 x two 30's x one 40 x three 35's x one 40 x one 30 to 1,030
Chief (III)	...	815 x one 35 x one 30 x two 35's x one 45 x three 40's to 1,115
Chief (IV)	...	880 x three 30's x one 45 x two 40's x one 45 x two 40's to 1,220
Chief (V)	...	935 x one 45 x two 40's x one 50 x two 45's x one 50 x one 45 x one 40 to 1,335

If required to attend an evening clinic outside a thirty-nine-hour working week, the pharmacist receives 10s. 11d. for each hour of extra work. Part-time pharmacists working up to twenty-four hours per week are entitled to 34s. 4d. per session of four hours (43s. 8d. if in sole charge). A proportionate sum is paid for shorter periods, calculated to the nearest completed half-hour. If more than twenty-four hours are worked in a week, a pro-rata payment on the full-time scale is made.

Point of entry to the basic grade for persons with accepted professional experience is £730. Minimum salary entitling pharmacists to thirty-six days' annual leave is now £1,220 with protection for those already entitled to thirty-six days.

Pregraduate students having passed the intermediate examination receive £185 the first year and £220 the second or, if the examination has not been passed (or exemption has been obtained) £165 and £200. Pregraduate stu-

dents registered on or after March 1 receive £185 if under eighteen years of age, and £220 if eighteen or over. Post-graduate students receive £400.

The new scales are not being applied until an official circular has been issued to employing authorities. London "weighting," teaching hospitals and other allowances are not increased.

### Key Industry Duty

#### EXEMPTION LIST EXTENDED

THE Treasury has made an Order (published as S.I., 1958, No. 1972), exempting the following chemicals from Key Industry Duty until December 31:—

Adenine sulphate  
5-Amino-1-naphthol  
mono-*tert*Butyl-4-hydroxyanisole  
Copper aceto-arsenite  
4:5-Dichlorobenzene-1:3-disulphonamide  
3:4-Dichlorobenzoyl chloride  
Diethyl ethoxymethylenemalonate  
2:4-Dihydroxybenzaldehyde  
Dimethyl maleate  
Ethyl benzoylacetate  
Ethyl 4:4'-dichlorobenzilate  
*n*-Heptioic acid  
*n*-Heptyl alcohol  
*m*-Hydroxybenzoic acid  
2-Methoxycarbonyl-1-methylvinyl dimethyl phosphate  
1-Phenyl-5-sulphanilamidopyrazole  
Potassium 4-aminosalicylate  
Radioactive isotopes, artificial, and compounds of such isotopes  
diSodium benzene-*m*-disulphonate  
Sulphaproxyline  
DL-Threonine  
Trichloroacetic acid of a purity not exceeding 95 per cent.  
2:3:6-Trichlorobenzoic acid  
3:3:5-Trimethylcyclohexyl mandelate  
Zinc sulphite

The Order came into operation on November 29.

### Duty free Imports

#### ANNOUNCED AND PROPOSED CHANGES

REVISED application forms and notes for the guidance of applicants in respect of the various types of goods eligible for duty-free entry into the United Kingdom under Treasury direc-

tion are being prepared and will be obtainable on December 15 from I.M.I., Duty Remission Branch, Board of Trade, Lacon House, Theobalds Road, London, W.C.1. In addition to the reliefs afforded by previous enactments certain organic products (dyestuffs and intermediates) are to be considered from January 1, 1959, provided similar articles are not procurable in the U.K. for the time being. Inquiries about the latter should be made to the Dyestuffs Office, Board of Trade, 76 Newton Street, Manchester, 1. — The Board of Trade is considering an application for exemption from import duty of aqueous barium sulphate containing 70-80 per cent. by weight of barium sulphate and containing in the dried material not more than 4 parts per million by weight of iron compounds calculated as metallic iron. (The material is used for the baryta-coating of paper.)

### Export Control

#### RELAXATIONS INCLUDE GLYCERIN

THE Board of Trade has announced certain changes in export licensing that came into force on December 1. The latest amendment to the Export of Goods Control Order removes export control from a wide range of goods, slightly amends the liability to licensing of a few goods and imposes con-

### SIGN OF A PHARMACIST



The lantern that projects from the front of a pharmacy of Adecock, Chemist, Alcester, Ltd., Alcester, Warwickshire, is in red glass, with a brass finial. The lantern is believed a replacement of an earlier one, using an original bracket.

trol on only two additional items, one of which is *p*-nitromethylaniline. Among the goods de-controlled by the present Order (published as S.I., 1958, No. 1937), are glycerin, certain hydrazine salts, nickel hydroxides and oxides, and tetraethyl-lead.

## Approved Names

### A SUPPLEMENTARY LIST

THE following supplementary list of approved names has been issued by the British Pharmacopœia Commission.

APPROVED NAME	OTHER NAMES
Anisindione	2 - <i>p</i> -Methoxyphenylindane-1:3-dione; Miradon
Cloquinate	Chloroquine di-(8-hydroxy-7-iodoquinoline - 5 - sulphonate)
Dieldrin	Resotren Product containing 85 per cent. of 1:2:3:4:10:10-hexachloro - 6:7 - epoxy-1:4:4a:5:6:7:8:8a-octahydro - <i>exo</i> -1:4- <i>endo</i> -5:8-dimethano-naphthalene
Halopenium chloride	4-Bromobenzyl-3 - (4-chloro-5-methyl - 2 - isopropyl-phenoxy)-propylidemethylammonium chloride
Isoprop-amide iodide	(3 - Carbamoyl - 3:3 - diphenylpropyl) methylidisisopropyl-ammonium iodide
Mestanolone	Darbid; Tyrimide 17 $\beta$ -Hydroxy - 17 - methyl-5 $\alpha$ -androstan-3-one
Methsux-imide	Androstalone $N\alpha$ -Dimethyl - $\alpha$ - phenylsuccinimide
Noscapine	Celontin Narcotine
Poldine	Coscopin; Nicolane 2 - Benzilyloxyethyl - 1 - methylpyrrolidine
Prampine	Nacton is the methosulphate <i>O</i> -Propionylatropine
Promethazine theoclare	PAMN is the methonitrate <i>N</i> - (2-Dimethylamino - <i>n</i> -propyl)phenothiazine salt of 8-chlorotheophylline
Sulphamethoxypyridazine	Promethazine chlorotheophyllinate Avomine 3 - <i>p</i> -Aminobenzenesulphonamido - 6-methoxypyridazine
Sulphatolamide	Kynex; Ledekyn; Midicel <i>p</i> - Aminobenzenesulphonylthiourea salt of <i>p</i> -sulphamoylbenzylamine Marbadal C

## Polymers Arbitration

### TARIFF RATE TO BE UNCHANGED

THE tribunal appointed to decide whether certain polymers (polyethylene, polymethyl methacrylate, polystyrene and polyvinyl chloride) had been improperly excluded from the Key Industry Duty List J (see *C. & D.*, November 22, p. 545), has found that the polymers were properly excluded. The effect of the award is that the duty chargeable on those materials when imported from foreign sources remains unchanged at 10 per cent. *ad valorem*.

All the manufacturers concerned issued statements after the decision was made known. That by Imperial Chemical Industries, Ltd., said . . .

"the tribunal was solely concerned with a question of definition. . . . The hearing did not and could not touch the broad issue of whether, in principle, these polymers warranted increased protection. I.C.I. considers itself at least as efficient as any of the world's polymer producers and, in fact, is a leader in discovery and development in this field. However, it shares with other United Kingdom manufacturers of polymers the handicap that its overseas competitors enjoy higher tariff protection in their home markets than is afforded to United Kingdom manufacturers."

Sir Miles Thomas (chairman, Monsanto Chemicals, Ltd.), said:

"We are astounded at the decision of the tribunal, particularly as other and similar polymers are already subject to Key Industry Duty. . . . If the four polymers which form the subject of the tribunal's inquiry are not synthetic organic chemicals what in heavens name are they ? "

## Hebrew University

### INFORMATION DIRECTOR IN LONDON

GUEST speaker at the autumn cultural meeting of the Pharmaceutical Group of the Friends of the Hebrew University of Jerusalem, held in London on November 3, was Mr. B. Cherrick (director of organisation and information at the University). He was welcomed by Mr. M. Jackson (a vice-president of the Group and a member of the Pharmaceutical Society's Council). Mr. Cherrick said the school was to be in an independent building, but would not have direct representation on the Senate—only Faculties were entitled to such representation. He anticipated that, as the School grew, its status would increase, and present difficulties and anomalies would be overcome. In a vote of thanks to the speaker Dr. Max Donbrow (chairman) said that, as an interim measure, the University should seek advice from the pharmaceutical profession inside and outside Israel. The talk was preceded by the annual meeting of the Group, at which the chairman reported that support for the Friends was steadily increasing in London, and through the help of Mr. M. Jackson, in Leeds. Support, both moral and financial, was urgently needed.

## Microchemical Methods

### A COURSE OF LECTURES PLANNED

A COURSE of twelve lectures on "An Introduction to Micro- and Semi-microchemical Methods" is being held at Norwood Technical College, Knight's Hill, London, S.E.27, from 9.15 a.m. to 12.30 p.m. on Saturdays commencing January 10. The course is suitable for teachers and industrial and research chemists. It is designed to survey the principal branches of chemistry in which small-scale methods have been successfully applied. Application forms may be obtained from the secretary of the College. The London fee for the course is £1.

## IRISH NEWS

### THE REPUBLIC

## The Pharmacist's Rôle

### STUDENTS TOLD OF PRESENT TRENDS

A LECTURE on "The Rôle of the Pharmacist in Modern Medicine" was given under the auspices of the Irish Pharmaceutical Students' Association by Mr. A. R. G. Chamings (CIBA Laboratories, Ltd.), at the College of Pharmacy, Dublin, on November 20. The lecturer compared the practice of pharmacy as it was in the years immediately after the 1914-18 war with present conditions. He pointed out that the proportion of proprietary medicines dispensed in Britain now was about 50 per cent., but in Continental and American pharmacy the incidence of proprietaries in dispensing was as high as 80 or 90 per cent. The trend in Britain and Ireland would, he thought, be towards an increase in the proportion of ethical medical preparations. Too little attention was being paid to the important constituents of vegetable drugs many of which had not yet been properly investigated. Pharmacognosy was still a subject of great importance in the curriculum for the training of a pharmacist. The big increase in the number of synthetic organic substances in the British Pharmacopœia, compared with previous editions, clearly indicated the trend in pharmacy and stressed the need for greater emphasis on that subject in the educational curriculum. Among those present at the lecture were Mr. Hugh P. Corrigan (president of the Pharmaceutical Society of Ireland), Mr. J. G. Coleman (the Society's registrar) and Dr. R. F. Timoney (dean of the College).



NORTHERN IRELAND DANCE COMMITTEE : At front, the Misses C. B. Abernethy and N. M. Robinson, Mrs. T. I. O'Rourke and Mr. William Gorman; second row, Messrs. W. T. Hunter, T. I. O'Rourke and J. E. Morley; and (at rear) Messrs. H. M. Hamilton, J. Caldwell and J. Kerr.

## IRISH BREVITIES

### THE REPUBLIC

WEST of Ireland Chemists' Association and Westmeath Pharmaceutical Federation have decided to hold their New Year's night annual dance at Salt-hill, Galway, on January 1. The proceeds from the function are going to the Benevolent Fund of the Pharmaceutical Society of Ireland.

## SCOTTISH NEWS

## Drugs in Mental Illness

## BOARD OF CONTROL'S REPORT

THERE seems little doubt that the use of tranquillisers, in combination with other forms of treatment, can produce a significant and at times a dramatic improvement in the mental condition of sufferers from certain chronic forms of mental disorders, according to the annual report for 1957 of the General Board of Control for Scotland. The report says that research is being carried out in many mental hospitals into the clinical use and field of application of the many new drugs that have been introduced for the treatment of mental illness. Of tranquillisers it comments that they have attracted particular interest "and, to some extent, controversy," but adds that it is too early to form a final or satisfactory assessment of their value in psychiatry. The report then goes on: "Whereas in mental hospitals tranquillising drugs are now increasingly used, some other forms of physical treatment are being employed less than before. Insulin therapy, although still regarded by some authorities as the treatment of choice for certain types of schizophrenia, is now less commonly used: and neurosurgery has during the past year been considered necessary for a comparatively small number of patients. Electrotherapy, however, continues to be used extensively, particularly in the treatment of mental illnesses associated with depression." Published on November 28, the report (Cmd. 546) is available from H.M. Stationery Office (price 2s. 6d.).

## NEWS IN BRIEF

AFTER private study, Mr. E. H. B. Sellwood, F.P.S., Southport, Lancs, has passed the M.Pharm. examination for external students held by the University of London in September.

CHEMISTS in Warwickshire, Worcestershire and Staffordshire have been asked by police to check their records for sales in the past few months of a poisonous substance found in the stomachs of three racehorses that died at an Atherstone stable recently.

THE transfer scholarships scheme of Imperial Chemical Industries, Ltd. (see *C. & D.*, March 31, 1956, p. 209), is being continued for at least the next two years. The scholarships enable undergraduates to change over from arts subjects to science and in 1957 thirty-three students made the change.

MORE than 200 people attended the first annual ball of the Tees-side Branch of the Pharmaceutical Society held at Billingham on November 12. Mr. R. E. Jackson (chairman) welcomed the guests, including Mr. T. Heseltine and Mr. E. Kent (members of the Society's Council).

MR. R. Cave (founder-chairman of the Multiple Sclerosis Society) told members of the Birmingham branch, at their recent annual meeting that there was now "sober hope" for the 40,000 people in the United Kingdom who were victims of the disease.

## TOPICAL REFLECTIONS

By Xrayser

## A Little List

I observe from a paragraph on p. 571 that, under the Drug Tariff, pharmacists in Scotland are to be priced on certain minimum packs of proprietary preparations. Although your report does not say so, presumably it will be open to any contractor not using so large a pack as those indicated to make representations to that effect in order that he may be reimbursed at the higher rate he may have had to pay for his goods if one or other of the preparations mentioned is not the medical fancy in his area. That would be in line with what has been the practice in England. The list is not without interest. It is, doubtless, based on trends over the country as a whole. That singular anomaly, the "average" pharmacist, as Ko-Ko might have described him, may perchance find the list to accord with his own experience. But I never see such a list without applying it to my own circumstances, influenced as they are by the foibles of the doctors within my orbit. The appearance of several of the preparations in the list offers scope for speculation, for in my personal experience—and I stress that—they have been elevated to the "upper house" where they now rub shoulders with kino gum, grains of paradise and valerianate of quinine. There seemed a raising of the eyebrows on the part of the elder statesmen mentioned when the newcomers arrived, for they had not come over with William the Conqueror. They lacked tradition. It may be that the survival of some of the preparations in the Scottish list is due to the fact that the Scottish doctor is more proprietary-resistant than his southern counterpart, or it may be that Hadrian's Wall retards the medical representative. A third possibility is that, while discussions between the appropriate Department and the chemists' representatives have been going on, the speed of medical progress has paid scant attention to their deliberations. But it never does do to lose sight of the fact that one may not be an "average" pharmacist, and that local doctors may not be "average" prescribers. "There," as a modern Hamlet might say, "is the neurovascular rubifacient."

## Outliving Usefulness

The mid-southern Regional Pharmaceutical Conference, which took place this year at Southsea (p. 580), held closely to its brief in the discussion on the British Pharmacopœia. The opening speaker—who so often determines the direction of a discussion—was Mr. E. R. Matthews, and he did well to remind those present that the resolution before the meeting was to the effect that the British Pharmacopœia in its present form had outlived its usefulness to the practising pharmacist. Pharmacopœias have altered in character since they were more dispensaries than they are today, and since, too, many of the formulas they contained could be extemporaneously prepared in the pharmacy. Such interesting and instructive work was invaluable in the training of the apprentice in the art of dispensing. But the B.P. is today, as several speakers pointed out, a work of standards and only rarely a book of reference.

## A Fascinating Exhibition

The exhibition of medical records in the library of the Royal College of Physicians in London is something which I feel the Pharmaceutical Society could copy with advantage. Now that Bloomsbury Square is in process of remodelling, it might be sound policy to ask the librarian and the History of Pharmacy Committee to co-operate in arranging systematic displays of certain of the treasures owned by the Society. The interest of the general public might be aroused by advertisement, and pharmacy in general would not suffer from the publicity. The recipe books of the lady of the manor of Langley Park are of great historic and sociological importance, marking a phase in the development of the healing art which took final shape in the National Health Service. But for the well-meaning efforts of the "high-born damsel," the poor would have had little attention. A famous example of such a work is the *Arcana Fairfaxiana*, immortalised by George Weddell in 1890.

# INDUSTRY REACTS TO CHALLENGE OF CHANGE

## Discussions at a National Management Conference

THEME of a national conference organised by the British Institute of Management and held at Brighton, November 26-28, was "The Challenge of Change," the aspects discussed ranging from export salesmanship to stock control, and from training to cost accounting.

### Selling Abroad

One of the most provocative papers was "Selling Abroad: Are We Good Enough?" Mr. B. H. DYSON, who presented it, said it would be a fatal day for British industry when it thought itself good enough. Reduced exports should be regarded not as work shortage but as lack of orders. In that way the right attitude could be developed. The speaker urged directors and managements to have the courage to accept change. Products must be made superior in styling and design; competitive in cost; consistent in quality; realistic in delivery; and must all be backed by good salesmanship and adequate service. He deprecated the tendency to appoint by correspondence or as a result of a chance order an agent in an overseas country "thus adding to the notepaper of the individual or firm yet another English trade mark to stagnate along with others." The way to explore possible business overseas was by personal visits. He had heard complaints from overseas that many British directors were mainly interested in drawing up long and detailed contracts for signing and sealing. That was not the best way to get orders. The more technical the products the more necessary it was to develop close contact between producer and purchaser. Mr. Dyson emphasised that often in overseas countries a typical British design was not acceptable. It might be necessary to "style for the customer."

On the subject of unrealistic delivery dates he said that the overseas customer should not be quoted a price accurate to sixpence and a delivery date such as "twelve to sixteen weeks." "Customer public opinion" was soon upset, and took a long time to build up again. Goods to be shipped from England should be watched carefully at every stage to ensure that the exporter always knew what the customer was thinking.

The method of marketing a product in any particular country was a top-level decision, but it was most important to ensure that a direct salesperson was available to demonstrate the product to the customer. Introducing the product to the consumer was the most vital stage of marketing because it could decide either an increase in the production schedule or conversely even the closing down of a factory.

A paper by MR. R. S. LIDDLE (sales manager of Ilford, Ltd.) on "The Influence of Sales Policy on Production Efficiency" underlined the view that sales, production, and research must be equal partners for success. The fundamental cause of sales and production

executives finding difficulty in assimilating the other's point of view was simple. Their outlook was different.

To assist the factory to be at a state of full use, with constant production and long runs, there must be an accurate forecast of what was going to be sold.

In the cost of an article must be included the cost of minimum stock levels to be held to take advantage of peak demand. High production cost often sprang from the vicious circle of over-production, over-stocking, increased costs, lower profit, higher prices, falling sales volume. Accurate sales forecasting, often resulted in stable employment, avoidance of redundancy, and avoidance of expenditure on training new staff.

Accurate sales forecasts enabled handling costs to be kept to a minimum and distributive machinery to be evolved to operate with maximum efficiency and economy. Another important factor in which the requirements of sales and production might be opposed was packaging — not only the presentation aspect (which, of course, could have a direct bearing on salability), but also the utilisation of unit packaging for bulk distribution. It should be the endeavour of the sales manager to obtain orders for the goods in unit packing whenever possible.

Mr. Liddle cited an instance in which significant savings had been made by the use of unit packaging. Selling had been progressively outstripping production and rationalisation of the packs had enabled production to cope with the demands without the introduction of new machinery or increased staff. Maximum production efficiency could only be achieved by the closest co-operation between sales and production. But even that could be rendered useless unless there were good human relations between the persons concerned.

Asked if he thought "high-powered television publicity" was going to displace salesmen, Mr. Liddle said he considered that the retail salesman would find decreasing scope for his activities: "... the buyer is influenced by advertising and in the main requires a branded product." The growth of the self-service store and the increasing domination of the multiples had to be considered. That might mean that the salesman would become increasingly concerned with display.

### Teenage Market

"Possibly no one over thirty is fit to meet successfully the challenge of serving a teenage market," said Mr. Mark Abrams (managing director, Research Services, Ltd.), in a paper on "The New Consumer."

Britain's teenagers were wage earners drawing about £1,480 million gross annually before taxation—roughly 8½ per cent. of all personal income in Great Britain.

Because of their relatively low incomes, teenagers contributed little to income tax, but their contributions to

State insurance schemes were comparatively high. Teenagers disposed of roughly £17 millions per week of uncommitted spending power — or £850 millions a year. To that figure should be added another £50 millions — the amount received as pocket money by the 750,000 non-employed teenagers — making a grand total of £900 millions a year to be spent by teenagers at their own discretion.

### Real Earnings Increased

Their real earnings had, when compared with 1938, increased by 50 per cent—double the rate of expansion for adults and their real "discretionary" spending had risen by 100 per cent.

In an analysis of the expenditure of teenagers during 1957, Mr. Abrams found that they spent £15 millions on cosmetics and £15 millions on other chemists' goods. That amounted to 24·2 per cent. of all the money spent on cosmetics during that year and 9·7 per cent. of the purchases of other chemists' goods.

That was "distinctive teenage spending for distinctive teenage ends in a distinctive teenage world." In terms of spending it was almost entirely a working-class market. Its middle class members were either still at school or college or at the beginning of their careers. Therefore not far short of 90 per cent. of all teenage spending was conditioned by working-class tastes and values.

Of special notice was the fact that the teenage market was highly mobile in its composition with high wastage and recruitment rates. Of the present 5,000,000 teenagers nearly 10 per cent. would marry in the next twelve months, abandon their teenage spending habits and transfer their spending power to a totally different adult market. To take their place the schools would provide a similar number of recruits, who had to be taught teenage habits.

The teenage market had none of the comfortable inertia common to many adult markets. One important factor was that there was little "carryover" into adult life. On marrying the ex-teenager started "almost from scratch" to learn the consuming habits appropriate to the new rôle.

Newly married working-class girls turned to their mothers for standards and guidance "which accounts for the conservatism of the British adult working-class consumer market and its tenacious preference for goods and styles that were appropriate in the poverty-stricken 1930's but are far from necessary with today's working-class prosperity." Increasingly school doctors in working-class areas were noting obesity among children and attributing it to prosperous but unimaginative young working-class mothers who had acquired feeding habits that were unavoidable in the depressed 1930's but were an anachronism today.

It was estimated that between 1958 and 1967 the number of teenagers would increase by at least 20 per cent.

The prosperity of the teenage market today might well be double the 1938 level and the young teenagers' real income per head might continue to rise faster than that of the rest of the population.

The adults' pre-war monopoly of spending had been broken and could not return.

It was difficult for the middle-aged British manufacturer to adopt the styles and language and appeals of American manufacturers concerned with the teenaged market, but he must gear himself both temperamentally and productively to accept, even to welcome and stimulate frequent change. Teenagers more than any other section of the community were looking for goods that were highly charged emotionally—something that was not easy for a middle-aged industrialist whose comparable enthusiasm and struggles took place in a world that ended thirty or forty years ago.

MR. C. T. WELLS (managing director of Empire Stores, Ltd.) said that his company had organised a "teenage selection committee" to guide buyers. The committee had surprised him by the things they wanted sold but it was amazing how accurately they had forecast their own generation's requirements. Mr. Abrams said he had been depressed by the results of a survey of Cambridge undergraduates. Ten per cent. of them had come from working-class homes and were more anxious to conform with middle-class tastes than the middle-class students themselves.

#### Stock Control

"The Science of Inventory Control" was the title of a paper by MR. M. A. BATTERSBY (work study manager, A. Boake Roberts & Co., Ltd.). Mr. Battersby said that often a stock-control system was merely a stock-recording system. To find the answers to "How much shall we order?" and "When shall we order?" was really a mathematical problem. If sales could be forecast with perfection then control would be relatively simple but when the position was more akin to normal practice then the statistician would apply the theory of probability and indicate the number of times one might run out of stock using varying stock levels.

Managements had to decide how much protection they wished to "buy,"—for the risk of running out of stock could be made as low as desired if a large enough stock was carried. However, other problems were often combined with those of stock control, such as those which referred to economic batch sizes. Furthermore, one could not always depend upon the distribution of the product remaining constant; the average level of sales might rise or fall, and the "spread" or dispersion about the average could also change. When such changes occurred the stock level and economic batch size might need revising. In a large organisation the electric computer would probably help to solve most inventory problems and he hoped that the computer designers would introduce a "small general-purpose model" that could be employed in many different types of organisations.

## LEGAL REPORTS

### A Chemist's Bankruptcy

AFTER deciding that an order for the adjudication of Samuel Henry Deakin, M.P.S., Laureston Pharmacy, Ballaquayle Road, Douglas, Isle of Man, as a bankrupt should be made, as Deakin had left the island on or about November 3, "with intent to defeat or delay" his creditors, Deemster Kneale remarked "It seems a good opening for someone." In court it was stated that the shop was on a valuable site so far as a chemists' shop was concerned, but that Deakin had overstocked.

### Failed To Give Warning

AT Liverpool assizes, on November 19, an eighteen-year-old girl, Eileen Roberts, St. Paul's Road, Rock Ferry, was awarded £434 damages against Dr. John Alfred Pugh, Old Chester Road, Rock Ferry. Following treatment to cure a wart, the girl had to have a finger-tip amputated. The judge ruled that Dr. Pugh had failed to warn her that the liquid he prescribed should have been applied only one drop at each application, and that any surplus should be wiped off her skin at once, because it was an acid and would corrode the flesh. The defence was granted a stay of execution for twenty-eight days.

## COMPANY NEWS

Last year's figures in parentheses

JEYES' SANITARY COMPOUNDS CO., LTD.—Mr. J. M. Fenton has been elected to the board.

JOHNSON, MATTHEY & CO., LTD.—An interim Ordinary dividend of 3 per cent. (same) has been announced.

GRIFFITHS HUGHES PROPRIETARIES, LTD.—An interim dividend on the Ordinary stock of 2½ per cent. has been declared.

SURGICAL EQUIPMENT SUPPLIES, LTD.—Mr. R. G. Krau (general manager) has been elected to the board.

H. R. NAPP, LTD.—Mr. B. C. B. Foyster has been appointed managing director and Mr. E. J. Dowty chairman of the company with effect from December 1.

COW & GATE, LTD.—Mr. Arthur St. J. Gates and Mr. Paul W. B. Gates, while retaining their managerial positions, are resigning from the board as they do not wish to continue as directors of public companies. Mr. J. T. McLaughlin has been appointed to the board and Mr. L. H. Waller has been appointed to the board of Home Counties Dairies (Holdings), Ltd., of the Cow & Gate group.

LEWIS & PEAT, LTD.—No Ordinary dividend is to be paid for 1957, when a consolidated net loss of £44,015 was incurred after recoverable tax, against a previous profit of £39,118. With £25,000 transferred from general reserve (£5,000 placed to that fund) and £20,000 (nil) from contingencies reserve, the balance forward is £4,817 (£26,655) after Preference dividends. (A final of 7½ per cent. made 12½ per

cent. for 1956). Mr. H. Boyden (chairman) says that under present conditions the directors consider that activities in commodity markets must be limited. As a result of diversification of interests, long-term prospects are good, but full benefits will not accrue for a year or two. The current year's results, he adds, show a substantial improvement over last year.

ORTHO PHARMACEUTICAL LTD.—Mr. J. H. Oakley, F.P.S., has been appointed to the board as director of manufacturing.

FISON S. LTD.—Subject to shareholders' approval it is proposed to make a capitalisation issue early in 1959 of 3,869,908 fully paid Ordinary shares in the proportion of

one share for each £2 Ordinary stock held. The issue will not necessarily result in a higher total dividend payment, it is pointed out.

BOOTS PURE DRUG CO., LTD.—A new "profit-earning" scheme under which 8½ per cent. of the profits will be set aside each year as a bonus fund for employees has been announced. The scheme replaces a "prosperity bonus" for which funds have been set aside in previous years at the discretion of the directors. In the last financial year that bonus amounted to approximately 7½ per cent. of profits, costing the company £415,000. In an explanatory leaflet for the staff, Mr. J. P. Savage (chairman) points out that the amount of bonus each member of the staff will receive, will depend on "the profits we together can earn." Each employee will have a number of shares in the bonus fund based on the number of pounds he earns each week multiplied by a factor representing length of service. Of the 40,000 employees, 2,400 have more than thirty years' service, 1,250 have twenty-five to thirty years, 1,175 have twenty to twenty-five years and 4,500 have ten to twenty years.

CHEMISTS' MUTUAL INSURANCE CO., LTD.—In presenting the annual report and statement of accounts for the year ended September 30, 1958, the directors report the usual steady progress but add that considerably better use could be made of their facilities by some pharmacists. The burglary account again shows by far the worst claims experience, the total of over £18,500 accounting for slightly more than 73 per cent. of premium income which is the highest figure ever recorded in respect of burglary claims. The attractive and expensive nature of many items now appearing in chemists' stocks makes precautions against unlawful entry increasingly more necessary. Premium income shows a reasonable improvement over the previous year but, if the present rate of increase in claims is maintained, the time cannot be far ahead when income in this ac-



Mr. J. H. Oakley

count will be insufficient. In view of the present claims experience, the additional reserve in the burglary account has been increased. A further £4,000 has been added to the general reserve and the balance of surpluses has been carried forward in the profit and loss account. The value of the company's holdings increased by over £13,000 during the year, which appreciation has been transferred to investment reserve account against future losses. The market value of the investments at September 30, 1958, was £177,681.

## BUSINESS CHANGES

LPC CHEMICALS AND DYES, LTD., have removed to the Saddlers' Hall, Gutter Lane, Cheapside, London, E.C.2 (telephone: Monarch 2892).

ASHE LABORATORIES, LTD., Leatherhead, Surrey, have acquired the Sherley range of products from Aspro-Nicholas, Ltd., Slough.

HULL CO-OPERATIVE SOCIETY, LTD., opened its central premises' third section at Jameson Street, Hull, on November 17. On that date the pharmacy was transferred into the new section.

COLCHESTER AND EAST ESSEX CO-OPERATIVE AND INDUSTRIAL SOCIETY, LTD., have transferred their former pharmacy department at 7 Long Wyre Street, to larger premises at 17 Long Wyre Street, Colchester.

## Appointments

WRIGHT, LAYMAN & UMNEY, LTD., 42 Southwark Street, London, S.E.1, have appointed Mr. V. T. Kelly their home sales manager.

PFIZER, LTD., Folkestone, Kent, announce that Mr. M. H. J. Villeneuve (former head of the company's commercial development department's chemical section), has been transferred to Kembell, Bishop & Co., Ltd., as technical service manager (a new post).

BAYER PRODUCTS, LTD., Eden Street, Kingston-on-Thames, Surrey, have appointed Mr. Martin Sterne their sales training officer with responsibility for training representatives in Britain and to give advice on advanced training techniques in various European countries.

THE division of Birlec, Ltd., Erdington, Birmingham, 24, formerly known as the dryer division, has been renamed dryer and gas plant division because of the company's expanding business in adsorption plant and gas generators. The new division continues to be administered by Messrs. T. C. Sanders (manager), H. J. Podmore (sales manager), and S. A. Gregory (technical manager).

## PERSONALITIES

MR. ARNOLD EILoART who, with a small team, is planning a crossing of the Atlantic by balloon, is a director of the Yeast Pac Co., Ltd., 146 Cromwell Road, London, S.W.7. With his son Timothy, and Colin and Rosemary Mudie, he is due to embark in the balloon "The Small World," so soon as weather conditions in the South Atlantic permit, from Tenerife, Canary Islands, towards Barbados,

British West Indies. The expedition is the result of two years' continuous planning and experiment, and, if successful, will make new records for Britain. Mr. Eiloart holds what is believed to be the only balloonist's licence in Britain.

## BIRTHS

RANKIN.—At Johnstone House, Belfast, on November 10, to Kathleen, wife of Mr. J. F. Rankin, M.P.S.N.I., 15 Hillside Drive, Belfast, a son.

## DEATHS

ADAMS.—At her home in Hatch End, Middlesex, on December 3, Mrs. Catherine Stevenson Adams, wife of Mr. F. W. Adams (a secretary and the registrar of the Pharmaceutical Society).

ALEXANDER.—At Alford, Aberdeenshire, recently, Miss Christian Jane

## IN PARLIAMENT

### BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

#### Value of £1

Another question by MR. LEWIS concerned the comparison of the purchasing value of the £ sterling in 1951 and 1958 which resulted in MR. ERROLL providing the following information:

	1951	1958
	s. d.	s. d.
January	20 0	15 1
February	19 10	15 2
March	19 8	15 1
April	19 4	14 11
May	18 11	14 11
June	18 10	14 10
July	18 7	15 1
August	18 6	15 1
September	18 4	15 1
October	18 3	14 11
November	18 2	
December	18 0	

The above figures are based on movements in the retail price indices during 1951 and 1958 and the change in the Consumer Price Index between 1951 and 1957.

#### Company Profits and Dividends

MR. LEWIS asked the Chancellor of the Exchequer whether he would publish similar figures giving the national average company profits and dividends. On behalf of the Chancellor MR. ERROLL said the figures were not available.

#### Arsenical Sprays

LIEUTENANT-COMMANDER S. L. C. MAYDON asked the Minister of Agriculture, on November 27, if he was aware that more than twenty cattle had died at two Somerset farms from arsenical sprays and if in view of the growing anxiety about the safety of many toxic sprays he would consider constituting research into their composition and use.

MR. JOHN HARE (Minister of Agriculture) said that precautions in the use and in dealing with treated crops had already been recommended by the Ministry on the advice of the Advisory Committee on Poisonous Substances used in agriculture and food storage. The Committee had been asked to review the question of arsenical sprays in the light of all the evidence available.

INDEX OF INDUSTRIAL PRODUCTION  
(January, 1951 = 100)\*

—	1951	1958	Per cent. changes
January	100	118	+18
February	105	124	+18
March	100	126	+26
April	105	116	+10
May	100	118	+18
June	105	119	+13
July	96		
August	90		
September	104		
October	104		
November	106		
December	97		

\* The index is weighted according to 1948 prices.

**Chiropodists**

MR. R. H. TURTON, at question time on December 1, said it was important that chiropodists should have professional status as soon as possible and asked the Minister of Health to make a statement regarding the registration of chiropodists. MR. DEREK WALKER-SMITH said that registration was provided for in a draft scheme for the statutory registration of professions supplementary to medicine which was under consideration, but he could not indicate a date in regard to legislation.

**Tooth-paste Advertising**

MISS F. E. BURTON asked the President of the Board of Trade on December 2, to agree that it was flagrantly dishonest for any manufacturer of tooth-paste to imply that it was not necessary to brush one's teeth often if his tooth-paste were used. MR. JOHN RODGERS (Parliamentary Secretary, Board of Trade) stated that the Board of Trade was in touch with the British Dental Association on the matter and if there was evidence of any offence manufacturers would be asked whether

they had anything to say before any proceedings were taken.

**Drug Addiction Committee**

Replying to a question from MR. M. LIPTON on December 1, MR. DEREK WALKER-SMITH (Minister of Health) said that the reason no representative of the nursing profession was appointed to the Committee of inquiry into drug addiction was because the purpose of the Committee was to give medical advice on the questions referred to them.

## PHARMACEUTICAL RESEARCH IN EDINBURGH

### Extensions to the laboratories of Duncan, Flockhart & Co., Ltd.

EXTENSIONS, comprising development and biological laboratories, to the research laboratories of Duncan, Flockhart & Co., Ltd., Wheatfield Road, Edinburgh, 11, were formally opened on November 14 by PROFESSOR JOHN BRUCE, C.B.E., T.D., F.R.C.S. Ed. (regius professor of clinical surgery and president of the Royal College of Surgeons of Edinburgh). The development laboratories are in an existing chemical laboratory building that also houses the analytical control department and library. The biological laboratories form part of a quadrangle of buildings in which both research and assay are carried out. The extensions to the laboratories were designed by members of the staff.

**Medicine's Debt to Industry**

PROFESSOR BRUCE said that medicine today was greatly in the debt of the pharmaceutical industry and its synthetic chemists, who provided a succession of powerful therapeutic tools that had revolutionised the practice of the doctor's craft. A debt was also owed to the industry for the way in which it had been ready and willing to foster research, including research in the fields of fundamental science. The practice of medicine would be the poorer were it not for those enlightened activities. It mattered little that some of the industry's research projects were commercial, for even then the profession secured the benefit of lower costs and improved qualities, "and after all there must be some return for the large budgets the drug houses are allocating to pharmaceutical research." Professor Bruce said he had been impressed also



Professor John Bruce officially opens the extensions. With him are Professor N. C. Hunt and Lord Ferrier (chairman of the Group).

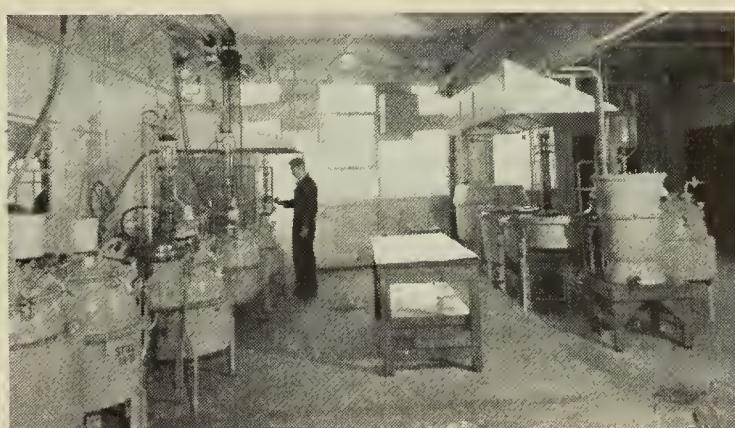
by the readiness with which resources were forthcoming for the exploration of new territory, with little thought for the immediate practical and profit-making consequences. For long Britain had

At right: a night view of the new extensions.

led the field in pharmaceutical science and development. Lately "the huge pharmaceutical empires over the Atlantic" had stolen some of Britain's thunder. It was good and reassuring, therefore, to see old friends forging ahead, determined to restore the country's prestige in the pharmaceutical world. He hoped their efforts would be well rewarded. He was confident that they would increase further the therapeutic resources of medicine and surgery, and shed new lustre on names already secure in the respect and admiration of the medical profession.

**Group Chairman Presides**

Lord Ferrier (chairman of the T. & H. Smith group of companies, of which Duncan Flockhart became a member in 1952) presided at the ceremony and Dr. F. R. Smith (director in charge of the Group's research and development activities) expressed thanks to the opener.



Left: A development laboratory; and right: The pilot plant section of the laboratories.

## NEW PRODUCTS AND PACKS

**A Steroid in 2-mgm. Tablets.** — Lederle Laboratories, division of Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, announce the introduction of Ledercort (triamcinolone) tablets, 2-mgm., in bottles of thirty and 100.

**Elixir for Lambs.** — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction of a new product, Ovigest brand elixir for the treatment of weakly lambs. Ovigest may be given by mouth or by injection and is available from December 17. It is issued in a unit pack of twelve 25-c.c. bottles.

**Sugar-free Effervescent.** — Scott & Turner, Ltd., Andrews House, Newcastle-on-Tyne, 1, announce that Andrews liver salt is now available in a sugar-free form which retains the characteristic palatability of the product and is specially suitable for diabetic patients or others on a special diet. The pack is an 8-oz. tin.

**Long-acting Muscle Relaxant.** — Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10, announce the introduction of a new speciality, Coltromyl, a long-acting muscle relaxant containing 4 mgm. of thiocolchicoside in a 2-mil ampoule. Coltromyl is indicated in conditions characterised by muscular spasm, notably in the fields of neurology, rheumatology, surgery and gynaecology. It is issued in box of six 2-mil ampoules.

**A New Antimalarial.** — Imperial Chemical Industries, Ltd., Pharmaceuticals Division, Fulshaw Hall, Wilmslow, Ches, have added to their list of medical products a new speciality Lapudrine tablets. Lapudrine is 3:4-dichlorophenylisopropylidiguanide hydrochloride (chlorproguanil) presented in scored tablets each containing 20 mgm. It possesses properties similar to those of Paludrine, but is more persistent in its effect.

**Tablets Against Rheumatism.** — A. H. Robins Co., Ltd., 5 Fenchurch Street, London, E.C.3, are marketing two new antirheumatic specialities. Pabalate sodium-free consists of rose-coloured enteric-coated tablets each containing potassium salicylate, 0.3 gm.; and potassium para-aminobenzoate, 0.3 gm. Administration is claimed to result in an increased plasma concentration of each component. Those components exhibit analgesic and antipyretic properties, and the salicylate exerts an anti-inflammatory action. The second product, Pabalate H.C., incorporates 2.5 mgm. of hydrocortisone alcohol in each light-blue enteric-coated tablet. The hydrocortisone is understood to be potentiated by the concurrent administration of salicylate and PABA, thus allowing the optimum therapeutic effect of the steroid at a minimal dosage. The hypopotassemia often resulting from steroid therapy is likely to be counteracted by the potassium ions in the formulation. Each product is presented in a bottle of fifty tablets.

**Two New Specialities.** — Abbott Laboratories, Ltd., 8 Baker Street, London,

W.L. announce the introduction of two new specialities. The first, Compocillin VK granules for oral solution, is designed to secure high blood levels of the potassium salt of penicillin V acid but in an oral form alternative to the established Compocillin VK Filmtabs. When reconstituted with water the granules make a solution with a cherry flavour. They are not intended for administration in a dry state. Adding 36 mils of tap water produces a solution containing 125 mgm. (200,000 units) of potassium penicillin V in each 5 mils (teaspoonful). The granules are presented in 1.5-gm. quantity in a bottle of 60-mils capacity. The company's second new speciality Erythrocin I.M. (erythromycin ethyl succinate, Abbott) is intended specifically for intramuscular use. Given as an initial injection in more severe cases, it ensures that blood levels are quickly available and maintained for a long period. A 2-mil ampoule of Erythrocin I.M. provides, the makers claim, a useful addition to emergency equipment, particularly for doctors' night calls. The initial injection may be followed by oral administration of Erythrocin stearate Filmtabs. If oral therapy is not desirable, Erythrocin I.M. offers a safer alternative to the intravenous route. It is supplied in 2-mil ampoules and 10-mil multi-dose vial (50 mgm. of erythromycin per mil).

### New Proprietary Steroids

MERCK Sharp & Dohme, Ltd., Hoddesdon, Herts, have made available, under the name Decadron (dexamethasone), a "completely new" corticosteroid, discovered in the research laboratories of the company. Decadron is understood to be thirty-five times more potent than cortisone; 7-10 times more potent than prednisolone and prednisone; and five times more potent than triamcinolone and methyl prednisolone. With the "lowest ever" incidence of side-effects, Decadron is expected to open a new chapter in steroid therapy. It is issued in bottles of thirty and 100 0.5-mgm. scored yellow tablets.

ROUSSEL Laboratories, Ltd., 847 Harrow Road, London, N.W.10, announce the general availability in this country of a new steroid (delta-1, 9- $\alpha$  fluoro, 16-methyl hydrocortisone) under the trade name Dexacortisyl. Dexacortisyl is basically the prednisolone molecule, with a fluorine atom and a methyl radical introduced at carbons 9 and 16 respectively. An American rheumatologist (Dr. Bumim) has reported in *Arthritis and Rheumatism*, 1958, 1, 313: "This preparation, the most potent of any steroid heretofore studied, did not cause sodium retention or potassium loss in doses sufficient to suppress rheumatoid disease." The new compound is understood to possess an anti-rheumatic potency about six times that of prednisone at an effective dosage of 1-4 mgm. daily. Dexacortisyl is presented in container of scored tablets of 0.5 mgm.

**New Varieties.** — Hill's Balsam, Ltd., Spring Bank Works, Nelson, Lancs, announce two variants of their bronchial balsam: Hill's "Junior" balsam and Hill's bronchial-balsam pastilles. In the

"Junior" balsam the formula has been modified and the presentation enlivened to appeal to juvenile users. That has been done by adding a double-sided



sleeve in full colour featuring two children in pyjamas—a boy on one side and a girl on the reverse. The bronchial balsam pastilles are offered as an alternative or complement to the standard liquid balsam.



**CHANGE OF PACK:** Illustrated are the new carton and tube adopted for their speciality Variderm placental ointment by the manufacturers, Paines & Byrne, Ltd., Pabayn Laboratories, Greenford, Middlesex.

### TRADE NOTES

**Now in Aluminium Container.** — Cupal, Ltd., Blackburn, Lancs, announce that their Cupal halibut-liver oil capsules are now available in an all-aluminium container.

**Economy Size.** — A new 60-gm. tube of Savlon antiseptic cream has been launched by the manufacturers, Imperial Chemical Industries, Ltd., pharmaceuticals division, Wilmslow, Ches. It is twice as big as the present size.

**Discontinued.** — Lederle Laboratories division of Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, announce the deletion of Aureomycin oral drops from their catalogue.

**A Figure Corrected.** — Vallergan syrup, the makers of which are Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, contains 2 mgm. per mil and not as previously stated. Vallergan forte contains 6 mgm. per mil.

**Sole Distributors.** — Macdonald & Son, Ltd., P.O. Box 6, Portland Mill, Ashton-under-Lyne, Lancs, are the sole distributors to chemists of Kosywo electric blankets. The blanket, which is satin-bound, is guaranteed for two years. It has interwoven element pockets to prevent the element from rubbing, chafing or touching within the blanket, and provides a continuous temperature of 130-135° F. on an operating cost of less than one farthing a day. The Kosy-

wol is presented in a modern carry case.

**A Showcard in Welsh.** — A cut-out showcard produced by T. L. Benton & Co., Ltd., 186 Seven Sisters Road, London, N.7, is designed to hold the two sizes of Chandau hair lacquer (in pale green polythene squeeze bottle), and has its legend entirely in the Welsh language. Messrs. Benton claim to be one of the few British manufacturers who have taken the trouble to produce

show material specially in Welsh.

#### Bonus Offers

CUPAL, LTD., Blackburn. Cupal halibut-liver oil capsules. Details from manufacturers.

#### INFORMATION WANTED

The Editor would appreciate information about the following:

Dressitex starch Oclusil  
SB2 skin lotion

## GIFT PACKS FOR CHRISTMAS SHOPPERS



Packings of Chandau bubble bath, Chandau hair lacquer, and Chandau bubble bath sachets. T. L. BENTON & CO., LTD.

Top right is a colourful gift card carrying a small bottle of perfume (White Fire or Hartnell's "In Love"). J. GROSSMITH & SON, LTD.

At left below, a Christmas display—"dis-

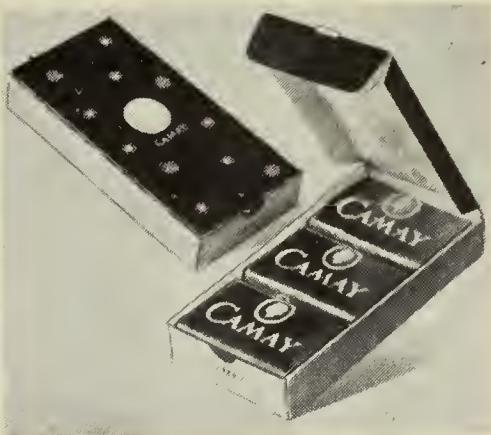
penser" for Gillette razors and blades. GILLETTE INDUSTRIES, LTD. Centre below, pack of six Morny soaps in assorted fragrances. Right: Two examples of seasonal coffrets containing Lancôme perfumes (Magié, "Trésor," "Envol," or Flèches d'Or). LANCOME (ENGLAND), LTD. Bottom left: Christmas sleeves for



wrapping round Ronson shavers. RONSON PRODUCTS, LTD.

Bottom centre: One of the seasonal gift coffrets in the Coty range. Six fragrances are available. COTY (ENGLAND), LTD.

Bottom right: Christmas pack of three tablets of Camay soap. THOMAS HEDLEY & CO., LTD.



# ULSTER ASSOCIATES' ANNUAL MEETING

## Discussions and resolutions on improving working conditions

THE fifteenth annual meeting of the Associates' Section of the Ulster Chemists' Association was held in Belfast on November 6, Mr. W. T. Hunter (chairman) presiding.

THE CHAIRMAN welcomed all present, especially the representatives of the Ulster Chemists' Association: Messrs. A. Templeton, J.P. (president), and J. A. Brown (vice-president). The secretary (Mr. S. Wright) read apologies for absence from Miss M. Meneely and Mr. G. E. McIlhagger.

MR. A. TEMPLETON in an address from the Association, spoke of the harmony that had been maintained between it and the Associates' Section. In a reference to the great number of chemists' shops in Northern Ireland, he said it was natural for everyone to want to be in business for himself, but it meant that every new shop was going to take business from someone else, and that it would be much better if there were more partnerships.

MR. J. A. BROWN said he was particularly happy to be present as he had been a founder member of the Section. Conditions in retail pharmacy had improved since the 1930's when he had qualified, he said, and the pharmacist of today was in a much better position than in those days.

After an interval for tea, the minutes of the 1957 annual meeting were read, confirmed as correct and signed, and the committee's annual report and financial statement for the year ending September 30 were adopted.

### Elections to Committee

THE CHAIRMAN then stated that the five retiring Ph.C. representatives had offered themselves for re-election to the Associates' Committee, together with the two retiring student representatives, who had qualified during their term of office. In the election Messrs. H. M. Hamilton, W. T. Hunter, J. E. Morley, J. M. McC. Thompson, S. Wright, who headed the poll were declared elected.

### Chairman's Address

THE CHAIRMAN then delivered his address. He said that, at the end of his happy year of office in which he had learned much and made many new friends and acquaintances, he was pleased to say most of the Section's aims had been accomplished.

He welcomed members who had joined the Section during the year, and hoped that they would continue their support. He wished success to those who had gone abroad or started up in business on their own account. He appealed to any members who knew of lapsed members to ask them to consider rejoining.

Twice during the year he had attended graduation ceremonies of the Pharmaceutical Society of Northern Ireland to present the Associates' prizes in the Part 1 and 2 Final examinations, and congratulated the Council on the new ceremony. It was a social event, he said, which parents and friends could attend and a great

improvement on the former arrangement.

The committee was endeavouring to help the Northern Ireland Development Council by forwarding information so as to attract pharmaceutical firms to manufacture their products in Northern Ireland by reason of the suitability of Northern Ireland as a site for the establishment of a pharmaceutical industry, the good facilities for obtaining pure water, the large number of skilled employees available in the territory, and the fact that the products, while of small bulk, were of considerable value.

The high cost of pharmaceutical services under the Health Scheme had been given much publicity, but if that excellent scheme were abused less and much of the red tape cut, those costs would be reduced. Recent antibiotic and cortisone preparations, being very expensive, tended to put up prescribers' costs, but those were offset by the patient's more speedy restoration to health. Customers seemed to think that their whole weekly stamp contribution went to pay for the health scheme. That was not so and he thought the Press could give more publicity to that fact. For example, a male employee's stamp was now 18s. 2d. (9s. 11d. paid by the employee and 8s. 3d. by the employer). Of that amount the first 1s. 5d. was for industrial injuries, the next 14s. 5d. for National Insurance benefits (which included sickness benefits, maternity grants, pensions, death grants, etc.) and the remaining 2s. 4d. was for the health services. The health scheme was a completely separate scheme, and, as the Ministry put it, was "only collected with the National Insurance Contribution in one combined stamp for convenience." The Health Service Contribution paid for only about one-ninth of the cost of the service, most of the balance coming from taxation.

There had been a tendency during the year in pharmacy to follow other traders in price cutting. The trend, especially in veterinary products, seemed more evident in the country areas. Cutting did not merit support in a professional body, and Associates should assist the executive committee in ending it.

There were still complaints about late closing, and members should assist in every way to ensure that shops closed at the correct time.

To those undertaking locum work he said that it was a duty to do the work to the best of one's ability. Failing to turn up or leaving before the agreed time was a breach of the "code of ethics," and leaving the shop without qualified supervision might lead to prosecution. Contract forms were available in the U.C.A. office to be completed by both employer and employee, and the contract was legally binding on both parties.

The demand for Associates' dance tickets increased each year, so he advised obtaining tickets early for the next event on February 26, 1959.

The chairman recorded his thanks to the officers and members of committee for their support and co-operation. No committee or section could exist without an efficient office staff to do all the work and the Section was fortunate in the Misses Ramsey and Kirk, whom he thanked sincerely.

### Resolutions

Considerable discussion took place on the action the Section could take to bring about earlier closing hours in pharmacy, and on the motion of MR. A. J. T. THOMPSON, seconded by MR. J. KERR, it was resolved that

The Associates' Section agrees that a closing hour of 6 p.m., with one late night per week of 7 p.m., should be normal for pharmacies in Northern Ireland, and that the associates' committee should contact the executive committee of the Ulster Chemists' Association, and suggest joint action to have local inquiries held, as set out in Section 12 of the Shops Act.

Discussion also took place on steps to be taken to improve the conditions of pharmaceutical employees as to holidays. On the motion of MR. W. E. COOPER, seconded by MR. R. J. DAVIDSON, it was resolved that

This meeting accept the fact that pharmacists should have an additional week's holiday each year.

On the motion of MR. R. G. P. McMULLAN, seconded by MISS R. GREEN, it was resolved that

The associates' committee take steps to find out what grants are available to students studying pharmacy — the information to be made available to all students.

On the proposal of MR. G. W. DAVIS, seconded by MR. W. E. COOPER, the following resolution was passed unanimously:

That this meeting resolves that it is now more important than ever that pharmacists should give their utmost support to manufacturers who have in the past supported, and are intending in the future to support, the chemist, and that pharmacists should continue to maintain the careful supervision of the sales of medicines on their premises.

MR. W. E. COOPER said he would like to thank all who had voted for him in the election, and the office staff for the help they had given him during his various periods of office.

Discussion followed on rota service, Sunday hours, rota payments, and whether shops employing only one pharmacist should remain open during the lunch hour.

On the proposal of MR. R. G. P. McMULLAN, seconded by MR. J. MCKEEVER, a vote of thanks was passed to the chairman for his conduct of the meeting and for his services during the year, to the members of committee, to the honorary auditor (Miss M. Meneely), to the Pharmaceutical Society of Northern Ireland for the use of the rooms, and to Mrs. Wilks for her excellent catering arrangements.

# PROBLEMS OF NEWLY QUALIFIED PHARMACISTS

## Regional Pharmaceutical Conference hears a "partnerships" suggestion

A SUGGESTION that young pharmacists should be offered partnerships in privately owned pharmacies was made at the eighth Mid-southern Regional Pharmaceutical Conference held at Southsea on November 19 (see also *C. & D.*, November 29, p. 580).

The subject the meeting was discussing was "The Problems of the Newly Qualified Pharmacist." There was no introduction to the discussion. MR. F. S. LEAPER, Southampton, said that the "old band" were not alive to the new facets that were being revealed in pharmacy today. He believed that one of the problems facing the newly qualified man was: "Shall I continue to work for someone else, or shall I have a 'bash'?" Pharmacists in the fifty-to-sixty age group were facing the problem who was going to replace them in their private pharmacies. The war had prevented young men from acquiring the capital to take over businesses. "Many of us have spent our capital, our youth and our energy in building up a business as an insurance for our old age; it looks as if many of us are going to face a difficult retirement. We older pharmacists have to face that problem."

### Scheme of Partnerships

MR. THORPE thought that private pharmacists could do more than they did to ease the situation. A little more sacrifice might be needed. None of the nineteen new students at the pharmacy department of Portsmouth College of Technology had served their apprenticeships in a private pharmacy. If private chemists encouraged young people to undertake an apprenticeship in a private pharmacy it would probably bring them back after qualification. When the student qualified he should not be treated as an employee. "After all we are always talking about our professional status," but he should be treated as a professional person. "If something could be done to introduce some scheme of partnership in retail pharmacy, where the 'employee' could become a partner in his own right and have some share in the profits of the business, the newly qualified person would be given an opportunity of gradually accumulating capital with which to start his own business."

MR. CLARK pointed out from the chair that the tendency of the newly qualified was to take six months' respite after their arduous studying. He regretted the passing of the old form of apprenticeship, and described the one-year apprenticeship as "farcical." Most broad-minded pharmacists would agree to Mr. Thorpe's partnership scheme.

MR. C. B. DEAN, Brighton, pointed out to Mr. Leaper that generally the companies had better facilities for training apprentices than had the private chemist. "One of our main duties as pharmacists, whether private or company, is to encourage new entrants into pharmacy by offering the best possible conditions for apprenticeship."

MR. RIDEHALGH thought that the acquisition of capital to finance one's own business was no different from in the past. It was a question of thrift. MR. BASSIL suggested that a young pharmacist might be given the opportunity to purchase, on an instalment system, the business in which he worked, after proving himself. Another speaker said that the main problem of the newly qualified was in themselves. They had to realise that, though they were qualified theoretically, they were unqualified practically, and would need to devote three to four years' hard work to assimilate the practical side of business.

MR. L. J. CHAMBERLAIN, Portsmouth, thought that the newly qualified looked down upon retail—they thought of it as just "dealing in a shop." There was a greater desire to work in hospitals and laboratories, but if that trend continued there would be no distributive outlet left for pharmaceutical products. It needed to be impressed on the newly qualified that the rewards in retail were likely to be greater, both in hard cash and in satisfaction, than in any other branch of pharmacy.

Another speaker thought that the discussion had been unfair to students, who had to do three years in college and probably two years' National Service, so that they had no time to do three years' apprenticeship. The problems of pharmacy were tied to economics. Private retail pharmacists had had an opportunity years ago to improve their positions, but had not taken that opportunity—they had played into the hands of the companies. The part-

nership scheme should have been undertaken years ago. Failure to do so had led to there being too many pharmacies now.

MR. T. C. YOWARD, Portsmouth, said that a big problem was which branch of pharmacy to go into. The problems of the young pharmacist in retail were whether a minor wound had been dressed properly, how to recognise chickenpox, whether to dress a child's injured finger or send him to hospital, whether a window had been properly dressed, where to buy drugs at the best price, how to fit an elastic stocking and, not the least important, how to deal with staff.

MR. R. DANCE, Portsmouth, who said that he had been qualified for two years, thought it was too much for a newly qualified pharmacist to take on to rush into proprietorship. He would probably find that the business he had purchased offered no scope for expansion. The partnership idea was good. Working for a company he had none of the worries usually associated with the running of a small private pharmacy. Another young pharmacist said that many of the items listed by Mr. Yoward were gained with experience.

Summing up, THE CHAIRMAN commented that no subject in retail pharmacy was so interesting as that which they had just discussed. The future of retail pharmacy depended on getting together with young pharmacists. Branches would be well advised to concentrate more on talking over that subject and less on getting speakers from headquarters.

## A PHARMACY SCHOOL EXTENDED

Heriot-Watt's new unit cost £50,000

AN extension to the pharmacy department of Heriot-Watt College, Edinburgh, was opened on November 25 by Mr. D. W. Hudson (president of the Pharmaceutical Society). The new construction, incorporating the most modern building techniques, is of four stories, with walls only 2-in. thick. It cost £50,000, and is situated in the quadrangle on the south side of the Grassmarket, which also contains the pharmacy block erected in 1950. The department is therefore now a self-contained modern unit. The new section contains a lecture theatre, well equipped and comfortably seated, together with laboratories for pharmacognosy, pharmacology and physiology, and bacteriology, where aseptic operations are taught and practised under ideal conditions. There are, in addition, preparation rooms and staff rooms.

Mr. Ian Johnson-Gilbert (lord provost of Edinburgh and chairman of the College governors), presided at the opening ceremony. He referred to the development of pharmaceutical education in Edinburgh, pointing out that the Royal Public Dispensary School of Pharmacy, which dated from 1776, was incorporated in the Heriot-Watt College. Mr. Hudson, in declaring the new

building open, said he looked forward to a time when students of pharmacy would take degree courses. He hoped that Edinburgh University would make use of the facilities offered in the College's pharmacy department to institute a degree in pharmacy. "The proper place for pharmacy," he said, "is in close association with the medical schools and, indeed, in this case, with a medical school that has always had a world-wide reputation." Pharmacy, in the past few decades, had changed from a craft into a complex science in which many branches of pure science had been welded together with one common aim. That aim was to produce efficient materials and establish standards of purity and strength for the relief of human suffering. The type of pharmacist required today could be produced only by a full curriculum of fundamental training in a school adequately provided with specialised equipment. Among those present on the platform were Mr. J. B. Grosset (chairman of the executive, Scottish Department of the Society), Mr. W. F. Arbuckle (secretary, Scottish Education Department), Mr. Hugh B. Nisbet (principal of the College), and Mr. H. H. Campbell (head of the pharmacy department).

# Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

## Robot Doctors?

SIR.—One Sunday paper seriously suggested recently that soon we shall have robot machines that will diagnose and supply a prescription for all our ills. When the right buttons are pressed it will shoot out a slip which, when put into another machine, brings forth the right pills, tablets or powders. Well, why not? Many doctors seem already not far removed from mechanical robots and pharmacists are too often merely label lickers.

“ANOTHER BOB”

## H. E. Chapman Testimonial

SIR.—This appeal will be closing shortly before Christmas and I would request the courtesy of your columns to draw that fact to the attention of such of your readers as have not yet sent in their contribution. I do hope, as the result of this letter, that those who have not already done so will accept this as the only reminder, and let me have their contribution as soon as possible, cheques being made payable to the H. E. Chapman Testimonial Fund.

H. G. Moss,  
Fern Grove,  
Feltham, Middlesex

## Reference Books

SIR.—With reference to your report on the usefulness of the British Pharmacopœia, I run what, from much experience, I would call an “average” dispensary, without Martindale, a B.P. or a B.P.C. The only books required are the last four issues of the British National Formulary and an up-to-date copy of a trade price list. A script or request for an unknown “ethical” is traced in the price list and a cross-reference to the maker’s list or latest pamphlet gives all the information required.

SAMUEL B. RYAN,  
Worksop

## Not-so-apathetic Students

SIR.—May I hasten to correct a wrong impression in my letter (C. & D., November 22, p. 556) on the lack of interest amongst the pharmacists in and around Nottingham on the occasion of Sir Hugh Linstead’s recent visit. It might be read as meaning that *no* students from Nottingham University attended. In fact a number were present. Indeed, there is always a fair turn up of the keener pharmacy students at all our Nottingham meetings, and they lend a good deal to the discussions by their modern views and sensible questions. It is the older members who are the most apathetic.

R. G. DAVIES-JOHNS,  
Chilwell, Notts

## Self-service Next?

SIR.—I had hoped to read in THE CHEMIST AND DRUGGIST a lot of criticism of Sir Hugh Linstead’s remarks

at Nottingham about dispensing. Surely at least a statement by some member of the Council that Sir Hugh was giving *only* his own views should have been forthcoming. If the majority of pharmacists were misguided enough to follow his suggestions it would not be long before, with the increasing number of proprietaries supplied, it would be possible to have a self-service dispensary. The Government would not be likely to pay pharmacists much for being clerk-in-charge and entering D.D.A. prescriptions. Sir Hugh appears only too often to be more of a politician than a pharmacist and rather out of touch with pharmaceutical practice. Still, he is only expressing the views of lazy pharmacists who think only how easily they can complete a prescription and get on to the next one. How many of them would actually remove the carton, label and paint themselves? Surely they can afford to employ a fifteen-year-old girl to do that if they are so busy!

TREVOR DARKE, F.P.S.,  
South Shields

## MUSEUM PIECE



English Delft drug jar of around 1760. From the collection of Philip Harris, Ltd., 144 Edmund Street, Birmingham, 3.

## Signs of the Times?

SIR.—I hasten to congratulate Grandad (C. & D., November 29, p. 582) on waking up to the fact that something is happening to retail pharmacy; most of the other 15,000 proprietors are far too busy to notice anything. Average attendance at branch meetings is less than 10 per cent. of local membership. Our ancient craft is doomed to extinction unless the following things happen soon:

1. A thousand proprietors each take and train an apprentice. That is not difficult; a 2 x 2 in. advertisement in the local paper headed “Retail Pharmacy as a Career” would probably bring at least one reply, as mine did recently. Apprentices are not expensive and are extremely useful after the first few weeks of training.

2. The Society drop its “degrees-for-all-pharmacists” idea and revert to two examinations, the easier one being for retail entrants. Much of the poppycock being taught today is quite useless in shop life, and the sooner our educationalists realise that retail pharmacy is 75 per cent. shop work and 25 per cent. dispensing in a very simple form, the better for all concerned. It is not necessary to learn the structural formula of cortisone in order to scrape labels and count tablets. A knowledge of how to make a batch of hair cream would be much more profitable to the retail man. (A knowledge of correct doses would perhaps save a few lives).

3. Young entrants to retail pharmacy discard the five-day-week mentality and realise that every Saturday in most towns there is a “spending-spree” day, therefore the shop must be open in order to cash-in whilst the going is good. (Grandad probably shared my experience of 10 p.m., Saturday closing in the 1920’s. It’s not quite so bad today).

Yes, the days of retail pharmaceutical establishments are numbered unless we get some help soon. Those Society Council members who have introduced a three-years’ course at this critical period of our existence will have much to answer for. The number of registered students dropped from 746 to 483 for the year ended October 1958 (official figures). “Cap-and-gown” types are unsuitable and unwanted in retail business. Pharmacists can, of course, refuse to vote for the men who are messing things up—but will they? Most don’t trouble to vote at all!

C. H. PATRICK,  
Twyford, Berks

## DID YOU READ IT?

### Prescription problem solution

THE “difficult” prescription given in last week’s issue (p. 582) must have been much less difficult to most pharmacists than to the contractor who sent it in and to ourselves for, although there was no prize, over a dozen volunteered solutions were received. All except one gave the right answer for the product—Iso-Bronchisan—but there were differences over the directions (variously interpreted as b.i.d., t.i.d., s.o.s., t.d.s., while one correspondent wrote “As for the sig., I would try to get away with ‘To be taken as before’”). From a pricing bureau a Clerk wrote “Your problem prescription was circulated to the pricing section of this office and whilst it would be presumptuous to say what should have been dispensed I learnt that, had the prescription been submitted for pricing, payment to the chemist concerned would without hesitation have been made for Iso-Bronchisan tablets (30).” One pharmacist had evidently tried out the prescription on his staff. He wrote “Times taken to decipher this: 1. One minute; 2, two minutes (Apoth. Hall); 3, ten minutes.”



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\* REGD. TRADEMARK

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<sup>1</sup>Rein, C. R. *et al.*, *J.A.M.A.* 165: 14: 1821-1823 (Dec. 7) 1957.

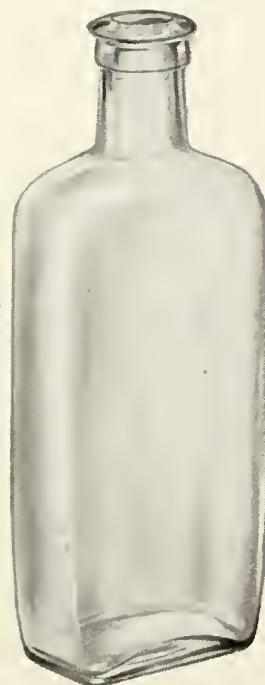
<sup>2</sup>Shelley, W. B., Harun, J. S. and Pillsbury, D. M.: *J.A.M.A.* 167: 8: 959-964 (June 21) 1958.

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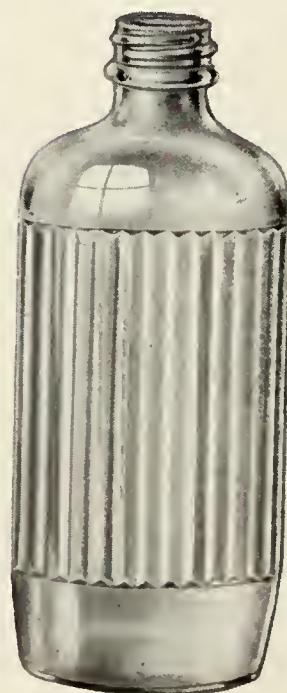



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# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

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## All is Mutation

THE "Challenge of Change," the theme of a national management conference held recently in Brighton (see p. 600) was in itself a challenging title. Many variations on the theme were discussed by authorities from a variety of industries, and it was surprising how many times the problems in other industries were found to be akin to those in the pharmaceutical industry and in pharmacy. There is, of course, good reason why that should be so, since all industries are concerned with individuals as much as with goods, and it was problems that arise from dealing with individuals that came up most urgently at the conference.

A paper that should be given special study by pharmacists was the one by Mr. M. Abrams on the "new consumer": the teenager. (That classification is not to be taken quite literally in relation to his remarks, since he was referring to persons aged 16-24.) To learn from Mr. Abrams that the adult no longer is the dominant purchaser was an arresting and provocative thought. So often is one accustomed in business to changes of demand and style that they are in danger of being accepted without any probing into the causes. Now that the subject has been broached, those with inquiring minds will investigate the reasons for the change, so as to make the most of the opportunities it opens up. To learn that the teenager in 1957 spent on an average 1s. 2d. per week on cosmetics, and was in fact responsible for nearly one quarter of the total sum spent in that market, indicates that, if the displays and the selling approach are not made to appeal to the 16-24-year-olds, possible sales will fall short by 25 per cent. of what they could become.

A plea to salesmen to get to know their market was made in a quite different connection by Mr. Dyson, but in fact the principle he was concerned with is the same. Mr. Dyson was speaking on export problems, and emphasised that an essential for successful exporting is to get to know the customer in the market aimed at. "Live in the country for a time—don't just visit it" was sound advice. If local salesmen were employed, then the exporter should direct his efforts towards making them his friends.

Personal relationships can, of course, also be a snare. Mr. A. Battersby, speaking on a manufacturer's problem of relating warehouse stocks to sales demand, spoke of the snags that could cause trouble when too much was left to the judgment of "Old Charlie, who had been in the stock-keeping business for years." "Old Charlie"

had said that a month's stock on hand was necessary and so a month's stock it was, nobody having really worked out why it should be one month's and not five weeks' stock (or maybe only a fortnight's). Charlie had provided an immediate answer, but sooner or later the problem had to be tackled in the large organisations on a mathematical basis, because stock-in-hand could be an expensive luxury. In their own sphere pharmacists have, of course, known for a long time how costly it can be, because changes in purchase-tax rates had made them painfully aware of the problem. Without benefit of an electronic computer they too must apply mathematical principles to the problem in order to get at the answer. In all fields of trade, therefore, changing conditions are throwing down their challenge. Those who face change and adapt themselves to it are going to reap the rewards. To the complacent the danger is that they may be overtaken by events.

## Testimonial to a Colleague

AS will be seen from the letter by Mr. H. G. Moss in our Correspondence columns on p. 608, the H. E. Chapman Testimonial Fund is shortly closing. Donations are understood to be coming in well, but there are still some from whom contributions have not been received. The appeal went out over signatures that included names distinguished in different branches of pharmacy, and we associate ourselves fully with their recommendations. We address ourselves now more especially to retail pharmacists, because they owe so much to Mr. Chapman for his lifetime spent in the service of the pharmaceutical products trade. He has faithfully followed the principles laid down by his famous predecessor, the late Sir William Glyn-Jones, and Sir William, were he alive today, would take pride in the achievements of his successor in office. Though much of Mr. Chapman's work has been done in the background, away from the limelight, the service he has rendered to his fellow pharmacists well merits what was said of him by the sponsors of the Fund in their letter of appeal. We have every confidence that those of our readers who have not already done so will hasten to take the opportunity now presented to pay their tribute to a worthy pharmacist. Details of how and where to send contributions are given in Mr. Moss's letter.

## Progress in Training in New Zealand

HITHERTO training in pharmacy in New Zealand has been on a part-time basis. Leaders of the profession have been aware that today's needs were not to be met in that way, and a movement towards a more adequate scheme of pharmaceutical education now sees some reward for its endeavours. The Minister of Education recently announced the provision of a full-time course of two years' duration at the Central Technical College, Petone. The course, which will open in 1960, will provide for a total of 150 students. To enter the first year, students must hold the university entrance qualification. Those who have passed the medical intermediate may apply for admission to the second year of the course in 1961 and subsequent years.

Though further advance will be needed if New Zealand is to equal British standards of qualification, the innovation will be recognised and commended as an important stride forward.

## Onward from Galen

### A CURRENT CAUSERIE

ON December 3, 1858, was born Hermann Rieder, a distinguished Bavarian radiologist, the son of a pharmacist. Rieder, who had at first intended to follow in his father's footsteps, decided instead to study medicine, and graduated M.D. at the University of Munich in 1884. Specialising in radiology, he taught physiotherapy in the University and established in Munich a municipal physical therapy institute. In 1903 Rieder introduced the use of bismuth subnitrate in x-ray study of the human gastro-intestinal tract ("Rieder's contrast meal"). Six years later he originated gastro-intestinal radiocinematography. He died on October 27, 1932.

★  
HENRY Atkins, who was born four hundred years ago (1558), was president of the College of Physicians when that body issued the first *London Pharmacopœia* in 1618. Pre-

paration of the work had dragged on for years, and Atkins was responsible for a more energetic approach to the task. Doubtless he was angry when he learned that while he was away from London for a few days the printer issued the first impression, for it contained many errors. A corrected version was published later in the year. Atkins, a graduate of Oxford and an M.D. of Nantes, was physician to James I, who offered him the first baronet's patent when the order was founded in 1611, an honour which he politely declined.

### A PHARMACIST'S ANTHOLOGY

#### STOMACH ULCER, POOR SOUL !

From "Mihrab Shah," by Robert Browning

TAX me my bread and salt twice over, claim  
Laila my daughter for thy sport,—go on !

Slay my son's self, maintain thy poetry  
Beats mine,—thou meritest a dozen deaths !

But—ulcer in the stomach, ah, poor soul,  
Try a fig-plaster : may it ease thy pangs.

## PHARMACIES OF BRITAIN—75



THE PHARMACY AT 4 HIGH STREET, MUCH WENLOCK

FOR over a hundred years the business of a chemist has been conducted at 4 High Street, Much Wenlock, Shropshire. In 1857 the owner was a Mr. Robert Heaton, chemist and druggist. Today, under Mr. R. A. Palgrave, M.P.S., its proprietor for the past five years, veterinary medicines and agricultural requisites form a substantial part of the business, a feature being the sale, first begun about thirty years ago, of seeds for root crops.

# ALCHEMIST AND ASTRONOMER

## A note on John Dee (1527-1658)

W. R. BETT, M.R.C.S., L.R.C.P., F.R.S.L., F.S.A.Scot.

SOME time in December 350 years ago there died in poverty at his house in Mortlake one of the most learned men of his age, who had devoted the greater part of a long life to seeking the philosopher's stone and to crystal gazing. John Dee was born in London on July 13, 1527, studied at St. John's College, Cambridge, and became a fellow of Trinity. According to his own account, his day consisted of eighteen hours of study, four of sleep, and two of meals and recreation. A reputation as a magician is said to have dated from the time when he produced a play at Trinity and used stage effects so baffling that they were attributed to supernatural agencies. On a visit to the Low Countries, Dee collected astronomical apparatus and two terrestrial globes constructed by the celebrated Flemish geographer, Gerardus Mercator.

In those days political or religious differences in England often led to violence and even to murder. When Bloody Mary acceded to the throne in 1553 her rival, the young Elizabeth, was imprisoned, and any who had shown Elizabeth consideration or courtesy were regarded as potential enemies of the Queen. Dee had corresponded with Elizabeth, and was accused of attempting to kill Mary by poison or magic. He was arrested and kept in prison, but after some time was interrogated by the Court of Star Chamber and acquitted of treason. One of his good deeds had been to beseech the Queen to recover and preserve the manuscripts and documents that had been dispersed at the dissolution of the monasteries.

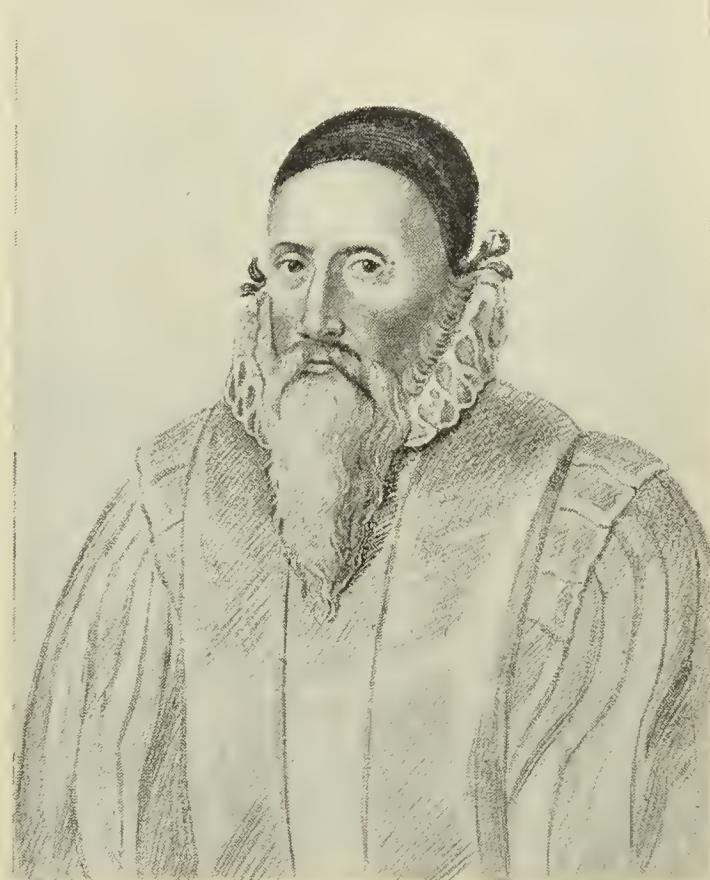
### *A Confident Elizabeth I*

Elizabeth came to the throne determined that her reign should begin as auspiciously as possible. Through Lord Robert Dudley, afterwards Earl of Leicester, John Dee, who enjoyed the reputation of being the best-informed man of his generation, was requested to find, by means of astrological calculations, a propitious day for the coronation. Elizabeth was always greatly impressed by his attainments and made him many—but seldom fulfilled—promises of preferment. She is said to have hoped for two things from his magic—wealth and the secret of eternal youth and beauty. When a wax image of the Queen, with a stiletto transfixing the breasts, was found in Lincoln's Inn Fields, Dee was urgently summoned to Richmond Palace. He was able to assure his frightened sovereign and her courtiers that they had nothing to fear. On another occasion, in 1577, he was called to Windsor to explain the meaning of a "blazing star" in the heaven. It had thrown the whole court into a state of alarm and apprehension, and for three days the Queen listened with keen interest to his discourse on comets. As nothing untoward happened after the star was seen, Dee was credited with averting a calamity.

In October 1578 Elizabeth was sorely plagued with tooth-ache and the "rheum." Again Dee was hastily summoned to Hampton Court, and later on the advice of the Earl of Leicester and of the Secretary of State (Sir Francis Walsingham) was sent to Germany to discuss Her Majesty's health with the most learned physicians of that country.

### *An Unholy Alliance*

It was an evil day for Dee when, on March 10, 1582, he met under the name of "Talbot" the notorious alchemist and charlatan Edward Kelley, who two years earlier had had his ears cropped in the pillory at Lancaster for forging documents or for coining base money. Kelley soon made himself indispensable to Dee and, despite many quarrels, remained his "skyrer" for more than a decade. He gained such sinister power over Dee that the old scholar came



John Dee

blindly to accept Kelley's claim that the angels had told him it was the divine pleasure that they should have their wives in common. The two busied themselves searching for the philosopher's stone, and it was commonly believed that they had found amid the ruins of Glastonbury Abbey a tincture for transmuting metals to gold.

The arch-patron of alchemy in those days was Rudolph II, Emperor of Germany and King of Hungary and Bohemia who, in his gloomy palace at Prague, entertained astrologers, magicians, and sharp practitioners. Dee and Kelley duly presented themselves at the Imperial Court. They were well rewarded for transmuting an ounce of mercury into "the purest gold," but later Rudolph tired of their pretentious performances. Kelley was imprisoned and, in attempting to escape by a turret window, sustained fatal injuries on November 25, 1595, but Dee meanwhile had returned to England. There he found himself shunned as a sorcerer. He did secure a short term as warden of Manchester College, but retired

to Mortlake in 1604 to pass his remaining few years in poverty. His interest in medicine was transmitted to his son, Arthur, who spent fourteen years in Russia as physician to the Czar, and on his return to England lost his money in a search for the grand elixir. Dee jun. was censured by the College of Physicians for displaying at his door a list of medicines which he offered for sale and by which he professed to be able to cure various diseases.



Edward Kelley

## GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 616.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

### PLANIDETS

MANUFACTURER: May & Baker, Ltd., Dagenham. DISTRIBUTORS: Pharmaceutical Specialities (May & Baker), Ltd., Dagenham.

DESCRIPTION: Antiseptic/analgesic lozenges, each containing dibromopropamidine embonate, 1 mgm.; chlorphenocoum amsonate, 1 mgm.; and butylaminobenzoate, 4 mgm.

INDICATIONS: For the relief of painful mouth and throat conditions; as an aid in the treatment of mouth and throat infections due to susceptible organisms; and as adjuvant therapy in alleviating irritation in tonsillitis, streptococcal throat, and Vincent's infection.

DOSAGE: One lozenge should be dissolved in the mouth every 3 hours. Total daily dosage: 4-6 lozenges.

HOW SUPPLIED: In tube of twelve.

FIRST ISSUED: October 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

### ROBITUSSIN

MANUFACTURER: A. H. Robins Co., Ltd., 5 Fenchurch Street, London, E.C.3.

DESCRIPTION: A therapeutic elixir, to facilitate helpful and minimise harmful cough, containing, in each 5 mils: glyceryl guaiacolate, 100 mgm.; and desoxyephedrine hydrochloride, 1 mgm.

INDICATIONS: Loosens unproductive cough in the following conditions: Acute head and chest colds; bronchitis; laryngitis; tracheitis; pharyngitis; pertussis; influenza; measles; tuberculosis; chronic paranasal sinusitis; and "smoker's cough."

DOSAGE: Adults: 1-2 teaspoonfuls every 2-3 hours as necessary. Children:  $\frac{1}{2}$ -1 teaspoonful according to age, two or more times daily.

HOW SUPPLIED: In bottle of 4 fl. oz.

FIRST ISSUED: November 1958.

SUPPLY RESTRICTIONS: P.I., S.I., S.4.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

### INTRALGIN gel

MANUFACTURER: Riker Laboratories, Ltd., Morley Street, Loughborough, Leics.

DESCRIPTION: An alcoholic gel containing salicylamide, 5 per cent., and benzocaine, 2 per cent.

INDICATIONS: Percutaneous analgesia of acute traumatic conditions and conditions in which muscular pain is not accompanied by broken or contused skin.

METHOD OF USE: Liberal application to the affected area followed by gentle massage to assist absorption.

HOW SUPPLIED: In tube containing 50 gm.

FIRST ISSUED: October 1958.

SUPPLY RESTRICTIONS: P.I.

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### ONYCHOPHYTEX

MANUFACTURER: Wynlit Laboratories, Ltd., 60 Welbeck Street, London, W.1.

DISTRIBUTOR: Savory & Moore, Ltd., 60 Welbeck Street, London, W.1.

DESCRIPTION: A paint for topical application containing 9.92 per cent. of borotannic complex in an alcohol/ethyl-acetate solvent.

INDICATIONS: Mycotic nail infections including paronychia.

METHOD OF USE: Applied to affected nails twice daily after trimming and cleaning. One or two additional applications may be made each day if the film on the nails is removed by work or frequent washing.

HOW SUPPLIED: In 30-c.c. brush bottle (with brush) containing 30 mils.

FIRST ISSUED: October 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

### DEANER

MANUFACTURER: Riker Laboratories, Ltd., Morley Street, Loughborough, Leics.

DESCRIPTION: White scored tablets each containing 25 mgm. of 2-dimethylaminoethanol (deanol) as the *p*-acetylaminobenzoate salt. The available evidence suggests that the compound is a precursor of acetylcholine and is capable of passing the blood/brain barrier. A parasympathetic stimulation of the brain is coincident with administration. Acute and chronic toxicity levels are low and serious side-effects have not been reported.

INDICATIONS: For the treatment of general debility, lassitude and mild depression. Also of value in chronic and migraine headache. Certain conditions at present experimental included in the literature. Contra-indications: *Grand mal* epilepsy and mixed epilepsy with a *grand mal* component.

DOSAGE: Initially one tablet twice daily for at least two weeks. The dosage may then be adjusted to the needs of the individual patient. The usual daily dose is 1-3 tablets. Because of the slow onset of effect it should be administered for at least two weeks before assessment of its effect is made.

HOW SUPPLIED: In bottles of 100 and 500 tablets.

FIRST ISSUED: October 1958.

NOTE: To prevent deterioration the product should be dispensed in glass containers.

REFERENCES: Amer. J. Psychiat., 1958, 114, 655. Science, 1957, 126, 610.

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### ENTOBEX

MANUFACTURER: CIBA Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: Tablets, each containing 50 mgm. of 4, 7-phenanthroline-5,6-quinone, a compound with amoebicidal and bactericidal properties.

INDICATIONS: Amoebic dysentery, including the chronic form; and the treatment of mixed infections previous to the bacteriological identification of invading organisms.

DOSAGE: Adults: The usual dosage is 1-2 tablets three times daily, to be taken during or after meals. Children: The adult dosage should be reduced according to age. The tablets should be swallowed whole, if necessary with a little liquid. The average duration of treatment is 5-10 days. In the event of re-infestation or relapse, a second course of treatment may be initiated after an interval of 1-2 weeks.

HOW SUPPLIED: In containers of twenty, 100 and 500.

FIRST ISSUED: July 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

### BRONTYL

MANUFACTURER: Lloyd-Hamol, Ltd., 11 Waterloo Place, London, S.W.1.

DESCRIPTION: Tablets each containing 120 mgm. of  $\beta$ -hydroxypropyltheophylline, and ampoules each containing 2 mils of a 15 per cent. solution of  $\beta$ -hydroxypropyltheophylline.  $\beta$ -hydroxypropyltheophylline is a new water-soluble theophylline derivative.

INDICATIONS: Bronchial asthma; chronic bronchitis; bronchiectasis and emphysema. Dyspnoea associated with cardiac insufficiency. Congestive heart failure; cardiac, pulmonary and nephritic oedemas; pulmonary congestion; coronary insufficiency.

DOSAGE: In general: 1-4 tablets 3-4 times per day, depending on the patient's response. The doses are well within the limits of toxicity and may be increased if desired. In emergency, 1-2 mils of the injection intramuscularly or intravenously.

HOW SUPPLIED: In vials of twenty-five and 100 tablets and in box of five ampoules.

FIRST ISSUED: October 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

**ENERIL**

MANUFACTURER: A. & G. Nicholas Ltd., Slough, Bucks.  
DESCRIPTION: Elixir containing paracetamol (N-acetyl-p-aminophenol), 120 mgm. in each teaspoonful.

INDICATIONS: Pediatric conditions where an analgesic/antipyretic is of value, e.g. tonsilitis, pyrexia following colds, influenza, etc.

DOSAGE: Infants under twelve months,  $\frac{1}{2}$  teaspoonful; Children one to four years,  $\frac{1}{2}$ -1 teaspoonful; four to eight years, 1-2 teaspoonfuls; eight to twelve years, 2 teaspoonfuls; every four to six hours or as directed by the physician.

HOW SUPPLIED: In bottles containing 4 and 40 fl. oz.

FIRST ISSUED: October 1958.

REFERENCES: *J. Amer. Med. Assoc.* (1956), 160, 12, 19

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**RESOCHIN**

MANUFACTURER: Farbenfabriken Bayer, A.G., Leverkusen, Germany. Distributors: Levmedic, Ltd., 37 Bedford Row, London, W.C.1.

DESCRIPTION: Tablets each containing 0.25 gm. of chloroquine diphosphate.

INDICATIONS: Malaria. Protozoal and helminthic infections. Skin diseases. Rheumatoid arthritis.

DOSAGE: Malaria, acute: Adults and children over eight years, 4 tablets. Children, 4-8 years, 3 tablets, 1-3 years, 2 tablets, below 1 year,  $\frac{1}{2}$ -1 tablet; Malaria, prophylaxis: Adults and children over ten years, 2 tablets once a week. Children under 10 years, 1 tablet weekly, up to 1 year  $\frac{1}{2}$  tablet weekly; Other conditions, generally 1 tablet three times daily for seven to ten days, then 1 tablet daily for several weeks.

HOW SUPPLIED: In bottle of 100 tablets.

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**DETIGON**

MANUFACTURER: Farbenfabriken Bayer, A.G., Leverkusen, Germany. Distributors: Levmedic, Ltd., 37 Bedford Row, London, W.C.1.

DESCRIPTION: A colourless, slightly viscous solution intended for administration by drop dosage. Each mil contains 50 mgm. of 1-o-chlorophenyl-3-dimethylamino-1-phenylpropan-1-ol hydrochloride in alcoholic solution.

INDICATIONS: Cough suppression associated with colds; bronchitis; smokers' cough; pulmonary tuberculosis; pleurisy; silicosis; tonsillectomy, post-operative; laparotomies, post-operative; and during diagnostic or therapeutic procedures in the throat and lungs.

DOSAGE: Adults: 15-20 drops three or four times daily in water, tea or fruit juice. Children: 5-15 drops according to age. Infants: Up to 2 years, 5 drops three or four times daily.

HOW SUPPLIED: In drop bottle of 10 mils and bottle of 50 mils.

FIRST ISSUED: November 1958.

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**FEBRILIX**

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTION: An analgesic and antipyretic preparation for children. Each fluid drachm contains 120 mgm. of paracetamol.

INDICATIONS: Conditions benefiting from the administration of an analgesic and antipyretic.

DOSAGE: The following doses may be given every four to six hours: 6 to 12 months,  $\frac{1}{2}$  teaspoonful; 1 to 4 years, 1 teaspoonful; over 4 years, 2 teaspoonfuls. The dose should be given in a little water, milk or fruit juice.

FIRST ISSUED: October 1958.

HOW SUPPLIED: In bottle of 70 mils.

REFERENCES: *Amer. Pract. Dig. Treat.*, 1957, 8, 1415. *J. Amer. Med. Ass.*, 1956, 160, 1219.

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**PABALATE sodium free and PABALATE H.C.**

MANUFACTURER: A. H. Robins Co., Ltd., 5 Fenchurch Street, London, E.C.3.

DESCRIPTION: Enteric-coated tablets: Pabalate sodium-free: Each contains potassium salicylate, 0.3 gm.; potassium para-aminobenzoate, 0.3 gm.. Pabalate H.C.: Each contains potassium salicylate, 0.3 gm.; potassium para-aminobenzoate, 0.3 gm.; and hydrocortisone alcohol, 2.5 mgm.

INDICATIONS: Pabalate sodium-free: Rheumatoid arthritis; fibrositis; acute rheumatic fever; gout; and osteoarthritis. In rheumatic affections complicated by conditions requiring restriction of sodium intake; and/or glomerulo-nephritis and pregnancy. Concurrent administration to potentiate the clinical effectiveness of cortisone or ACTH, permits the control of symptoms with much lower hormone dosage to avoid side-effects. Pabalate H.C.: Rheumatoid arthritis; rheumatoid spondylitis; Still's disease; psoriatic and gouty arthritis. Also recommended for osteoarthritis, acute rheumatic fever, bursitis, fibrositis and neuritis.

DOSAGE: Pabalate sodium-free: Average adult dose is 2 tablets, four times daily. In acute exacerbations the dose may be increased as required. Pabalate H.C.: Initially a dose of 6-8 tablets per day, increased if necessary to gain remission of symptoms. Reduction in dosage should be gradual.

HOW SUPPLIED: In bottle of fifty tablets.

SUPPLY RESTRICTIONS: Pabalate H.C.: P.I. S.I.

FIRST ISSUED: November 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

**DROXALIN gel**

MANUFACTURER: Scott & Turner, Ltd., Newcastle-on-Tyne, England.

DESCRIPTION: An acid-adsorbent amphoteric gel containing in each teaspoonful (3.5 mils) gr. 60 of aluminium hydroxide gel (equivalent to gr. 5 of dried aluminium hydroxide) and gr. 5 of magnesium trisilicate.

INDICATIONS: For the treatment of peptic ulcer and gastric hyperacidity.

DOSAGE: One or two teaspoonfuls half-an-hour after meals. Repeat as necessary.

HOW SUPPLIED: In bottles containing 8 and 80 fl. oz.

FIRST ISSUED: October 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

**PREDNELAN-N injection**

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: A sterile suspension of prednisolone acetate, 25 mgm., and neomycin sulphate, 5 mgm., per mil intended for intra-articular injection.

INDICATIONS: Rheumatoid arthritis; osteo-arthritis; traumatic arthritis; acute gouty arthritis; bursitis; Dupuytren's contracture.

DOSAGE: Repeated injection at intervals dictated by response and symptomatic remission. The knee joint is usually treated with 50 mgm. (2 mils), but subject to volume of space 1 to 6 mils may be administered.

HOW SUPPLIED: In boxes containing six 1-mil ampoules and in vials containing 5 mils.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, December 6, 1958

**PLUS-PRIN**

MANUFACTURER: Bengue & Co., Ltd., Mount Pleasant, Alperton, Wembley, Middlesex.

DESCRIPTION: Tablets containing acid acetylsal., 0.3 gm.; alumin. glyc., 0.06 gm.; alumin. hyd., 0.06 gm.; aneur. hyd. 1 mgm.; riboflavine, 1 mgm.; nicotinamide, 10 mgm.

INDICATIONS: The symptomatic relief of rheumatism, neuritis, dysmenorrhoea, influenza.

DOSAGE: 2 tablets as directed by the physician.

HOW SUPPLIED: In strip pack sections of twenty tablets within an outer carton.

FIRST ISSUED: October 1958.

## DRUG NOMENCLATURE

### Pharmacopœia Commission secretary addresses south-eastern pharmacists

GUEST speaker of the South-eastern Federation of Pharmacists (comprising Brighton, Eastbourne, Hastings, Tunbridge Wells and Worthing branches of the professional and trade bodies) at its autumn meetings at Eastbourne recently was MR. T. C. DENSTON (secretary of the Pharmacopœia Commission). The subject of his talk was "Non-Proprietary Names for Drugs." Mr. Denston said there were two aspects of the list issued by the Pharmacopœia Commission of non-proprietary names. They were the uses and purposes to which the name was to be put, and how the name was formed and announced. The purposes for which non-proprietary names were issued included a desire to avoid a multiplicity of names, to show the common identity of a substance as an ingredient of preparations; in association with a trade mark when the owner of the trade mark must use the non-proprietary name; in scientific and technical articles at home and abroad; for purposes of the poisons regulations; for purchase tax reasons; and finally in prescribing. The use of a non-proprietary name in prescriptions was therefore by no means the sole purpose.

#### Sources of Names

Non-proprietary names throughout the world came from five organisations. In America such names were issued by the American Medical Association; in France by the Ministry of Health (*Denominations Communes*); in Scandinavia by the Scandinavian Pharmacopœia Council; in Britain by the General Medical Council on the advice of the Pharmacopœia Commission; and by the World Health Organisation pharmaceutical section. Most of the names proposed by the World Health Organisation derived from the B.P. Commission and the American Medical Association. The list was first issued as "proposed" international names to give all member States the opportunity to comment or object. Any formal objection ruled out the intended name. If there were no objections, then after four months the recommended name became the international non-proprietary name. It was rarely in conflict with the British names.

In Britain, the situation by which the General Medical Council became responsible for non-proprietary names dated to the beginning of the 1939-45 war, when drugs of German origin were issued under trade names. British manufacturers set about making the same drugs under non-registered names and from 1940 such drugs as Atebrin appeared (as mepacrine, manufactured by three makers). The following guiding principles had to be followed:—The name had to be distinctive both from trade marks and from all other non-proprietary names; it must be reasonably short; reasonably easy to pronounce; and must not conflict with any others, either when written or when spoken. An attempt was first made by the selection of certain syllables from the chemical name, for example halothane for the anaesthetic Fluothane issued by Imperial Chemical Industries, Ltd.

When the chemical nature of the substance was unknown (for example, with the antibiotics) the method was to take in an indication of the derivation or source (e.g., polymyxin). A wrong suggestion must be avoided and so must numbers and letters so far as possible. Names of drugs were too many to remember, and it must not be overlooked that some of the older names for drugs, although complicated (e.g., ipecacuanha) seemed to present no difficulty. A handicap to the British authorities was often that drugs from the United States appeared in the British market only two or three years after the American name had gained currency. In those circumstances to coin a second and shorter name might be worse than to take over the American non-proprietary name. An anatomical, physiological or therapeutic suggestion had to be avoided.

When a new drug was introduced the manufacturer might request an ap-

proved name or notice might be taken of a new drug already on the market. The nomenclature commission of the Pharmacopœia Commission would put forward a suggestion coined at the Commission's office, but a search had then to be made of books of reference and advice taken from the Trade Marks Registry. If, after those conditions had been met, the manufacturer agreed, then the Commission would adopt the name. It was then authorised to be circulated to the Press, the World Health Organisation and other bodies. There was an interchange of information, especially with the American Medical Association. Drugs invented in Great Britain received non-proprietary names quite early in the life of the drug, but there was often delay with others. The General Medical Council had no legal basis for circulating non-proprietary names. For pest control products the authority was in fact the British Standards Institution, with which body there was collaboration when products had a dual purpose. The Commission was concerned only with single substances. Mr. C. H. Roberts presided.

## PORTSMOUTH PRIZE-GIVING

### Pharmacy department expansion

THE prize-giving of the department of pharmacy and physiology, Portsmouth College of Technology, was held in the College hall on November 12. MR. E. THORPE (head of the department) stated that there were ninety-two students now in the department of pharmacy and physiology; the necessary increase in accommodation would be met by the provision of extensive new laboratories. In the past session thirty-seven students had passed the examination. He welcomed three new staff members—Mr. P. J. Russell, B.Sc., M.P.S., from Birmingham University and College of Technology; Mr. G. Richardson, B.Sc., from Manchester University, and Mr. B. Tolman, B.Sc., from Leeds University. An extensive programme of research by members of staff was well in hand and would be further extended.

Mr. E. R. Matthews, senior lecturer in pharmaceutics, following a course on radioactive isotopes and the provision of a laboratory equipped with counting equipment, gave a short evening course on the subject.

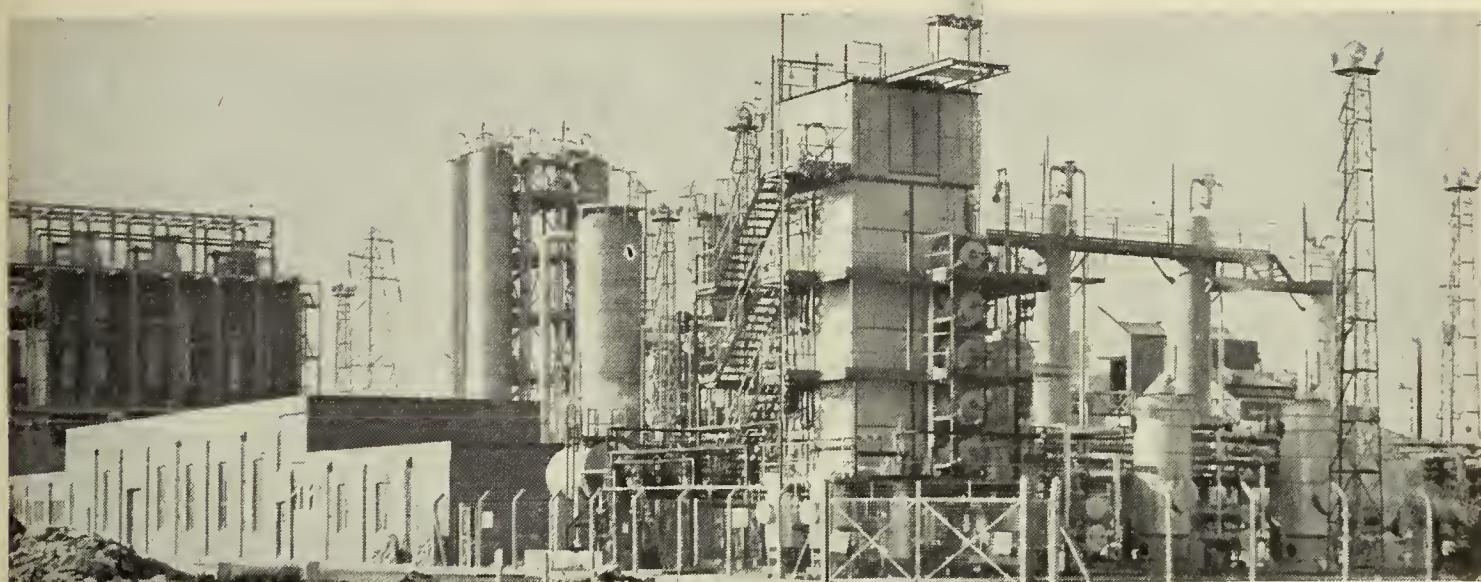
#### A Welcome from the Branch

MR. R. E. Clark, chairman of the local Branch of the Society, distributed the prizes. Dr. W. Taylor, principal of the College, occupied the chair. In a short address to the students, MR. CLARK extended a welcome to Branch meetings, and hoped that they would become active members of their own Branches. MR. J. C. BLOOMFIELD, member of Council, referred to the coming year as the jubilee year of the Portsmouth Chemists' Association, the body which was largely responsible for the promotion of pharmaceutical educa-

tion in the city, and to mark the occasion an appeal would be launched to provide for an extension of the departmental library facilities. MR. M. R. DAVIS, president of the Portsmouth branch of the British Pharmaceutical Students' Association, proposed a vote of thanks to the donors of the prizes and to Mr. Clark for making the presentation. Those present included: Mr. R. J. Berry (secretary of Portsmouth Chemists' Association); Mr. J. C. Bloomfield (a member of the Society's Council and president of Portsmouth Chemists' Association); Mr. W. H. Greaves (chairman of Bournemouth Branch); Mr. B. W. Harrison (retail staff department, Boots Pure Drug Co., Ltd.); Mr. J. Swan (a director, Herbert Ferryman, Ltd.); Mr. A. C. Yoward (secretary of Portsmouth Branch).

#### Winners of Awards

The following received prizes:—  
*Prize for Laboratory Notebooks*, D. P. Marsden. Presented by THE CHEMIST AND DRUGGIST; *Prize for Practical Pharmaceutics*, Graham A. Metcalfe. Presented by MR. R. E. CLARK, Branch chairman; *Prize for Pharmacognosy*, Jill M. Powell. Presented by the Portsmouth and District Chemists' Association; *Prize for Pharmacology*, Bruce A. Dibb. Presented by Mr. J. C. Bloomfield; *Prize for Pharmaceutical Chemistry*, Gordon N. Alexander. Presented by Herbert Ferryman, Ltd.; *Department Prize for all subjects*, Derek P. Marsden; *Prize for best student in all subjects*, Robert I. Williams. Presented by Boots Pure Drug Co., Ltd.; *Prize for best student in all subjects (second year)*, Ronald E. Salmon. Presented by Pfizer, Ltd.



General view of Laporte Chemicals, Ltd.'s, new plant at Warrington for the production of high-test hydrogen peroxide.

## HYDROGEN PEROXIDE BY A NEW PROCESS

### Warrington plant cuts production costs

AT a cost of £2½ millions, Laporte Chemicals, Ltd., opened at Baronet Works, Warrington, Lancs, on November 25, a new plant for the production of high-test hydrogen peroxide.

Believed to be the largest peroxide plant in the world, and the only one of its kind in the United Kingdom, it has, in the processes employed and detailed design of the plant, exclusive features that are not disclosed. As mentioned previously (*C. & D.*, November 29, p. 593), the company expect to gain from the new plant economies in production costs for high-test material, plus a considerably increased output.

Since 1954 there has been an increasing interest in hydrogen peroxide, not only for its use in bleaching and the manufacture of other per-compounds, but also for use as a propellant and as a reagent in organic syntheses. Those developments have resulted in a great deal of work on methods of manufacture other than by the electrolytic processes elaborated over the past fifty years. Of those alternatives, the one that has received the most attention has been the use of organic intermediates, particularly substituted anthraquinols, which autoxidise to form hydrogen peroxide. Early work on a process along those lines was carried out by I.G. Farbenindustrie in Germany, and it was taken to the pilot-plant scale during the 1939-45 war. The intermediate used was 2-ethyl anthraquinol which, in solution, was autoxidised, yielding hydrogen peroxide and the quinone. After separation of the hydrogen peroxide by aqueous extraction the quinone was catalytically hydrogenated to the quinol, and the solution recycled. The original German process has been further developed since 1945 by companies operating in a number of other countries and several processes are now in use. The process employed by Messrs. Laporte is based on the use of 2-ethyl anthraquinone. Development work was carried out by the company's research and development departments at Luton.

Hydrogen is made by cracking butane, which is brought from the Stanlow Oil Refinery by road tanker. In the presence of steam and a catalyst, the butane yields hydrogen and carbon monoxide, and the latter is removed by reacting with steam over a catalyst forming hydrogen and carbon dioxide. The CO<sub>2</sub>, removed by scrubbing with monoethanolamine, is stored and used when required as a purge gas in the autoxidation process. The hydrogen is passed over a catalyst, with further reduction of the carbon monoxide content and the formation of methane. It is

using a stream of hydrogen, which is passed through the reactor in excess of the theoretical requirement, the excess being recirculated together with fresh hydrogen. Catalyst is added to the reactor at the rate necessary to maintain the required rate of reaction, and the hydrogenation solution passes through filters, which retain the catalyst in the hydrogenator.

As both the hydrogenation and oxidation reactions produce heat, the filtered solution is cooled before passing to the oxidisers. Those are vertical vessels in which solution and air are fed to the base so that flow is co-current. The gas/liquid mixture leaving the top of the reactor is separated, the excess air passing through active carbon beds for recovery of evaporated process solvents before passing to the atmosphere.

Hydrogen peroxide is extracted from the organic solution using counter-current flow in columns fitted with perforated plates. As the organic solution is less dense than water it is fed to the base of the columns. The aqueous feed is deionised water prepared with mixed resin-bed exchange units to which a stabiliser and corrosion inhibitor are added. The aqueous product is withdrawn at a constant rate. It contains approximately 20 per cent. hydrogen peroxide which may be used direct for certain purposes but is normally further purified and concentrated to 50-90 per cent. by distillation.

Distillation is carried out on a site adjoining that of the organic cycle, again largely in the open. Part of the production from the stills is purified further and converted to 85-90 per cent. hydrogen peroxide (high-test peroxide, or HTP).

The company state their electrolytic hydrogen peroxide plants are working efficiently and can render good service for years to come but that the new organic method may eventually out-mode the electrolytic process so far as large-scale production is concerned just as the latter ousted the barium process.



Horton spheres for butane storage.

then compressed for use in the process. The autoxidation process organic cycle involves the use of two identical units operating in parallel up to the extraction stage, at which solution from both streams is mixed. Almost all the equipment is in the open, mounted on a concrete slab or in concrete bunds. Components are fabricated in aluminium, aluminium alloys, stainless steels and stoneware. The major vessels are probably the largest that have ever been fabricated in aluminium; they include vessels up to 80 ft. high and 12 ft. in diameter.

Hydrogenation is carried out in vertical vessels using palladium on an inert support in free suspension as the catalyst, and that is manufactured on the site. The catalyst is suspended,

## NOTES ON NEW MEDICAMENTS

**DEANER.**—*Chemistry:* *p*-Acetamidobenzoic acid salt of 2-dimethylaminoethanol. The base is a precursor of acetyleholine, concerned not only with nerve and muscle activity but also playing some part in the activity of certain areas of the brain. The use of acetyleholine and related compounds in mental conditions has not been very successful, possibly because their quaternary amine structure hinders transit across the blood-brain barrier. Dimethylaminoethanol does not possess that structure, and so can penetrate brain tissue, where it attains high levels. It is subsequently methylated to form choline, and then acetylated to form acetyleholine. Atrol, or 2-dimethylaminoethanol bitartrate, is a similar product, and Frenquel (4-piperidylbenzhydrol hydrochloride or azacyclonol) also has a specific action in schizophrenia. Elimit, a mixture of orphenadrine and reserpine, is used for similar conditions. The isomer of Frenquel (piradol or Meratran) has a mild central stimulant action, useful in depressive states.

**DETIGON.**—*Chemistry:* *o*-Chlorophenyl-3-dimethylamino-1-phenylpropanol hydrochloride. The compound has cough-depressant properties, but is chemically different from other compounds of that type. It is stated to be more effective as a cough depressant than narectine, less constipating than codeine, and to possess local anaesthetic properties of value in allaying pharyngeal irritation. Other cough depressants newly or relatively of recent introduction include Tessalon (nona-ethylene glycol mono-ethyl ether *p*-n-butylamino-benzoate), Coscopin and Neolane (narectine), Glycodine, Ethine, Tual and others containing pholcodine, and Romilar (dextromethorphan).

**ENTOBEX.**—*Chemistry:* 4,7-phenanthroline-5,6-quinone. This substance has marked amoebicidal and antibacterial properties but unlike the broad-spectrum antibiotics sometimes used in amoebiasis, it does not affect the coliform organisms normally present in the intestines. Other amoebicides include the alkaloids emetine and conessine, the arsenicals acetarsol and carbarsone (Leucarsone). Synthetic drugs include chiniofon (Avlochim), di-iodohydroxyquinoline (Diiodquin, Enbiquin, Savorquin), chloroquine (Aralen, Avlochlor, Combequine, Nivaquine, Nivembin) and Entamide (dichloro-N-4-hydroxyphenyl-N-methylacetamide).

**FEBRILIX.**—Contains paracetamol, or *N*-acetyl-*p*-aminophenol, a metabolite of phenacetin, and the moiety responsible for its analgesic effect. The other metabolic fragment is *p*-phenetedine, which is responsible for most of the side-effects associated with phenacetin therapy. Paracetamol therefore has advantages over the older drug. Another analgesic elixir containing paracetamol is Eneril. Panadol and Tabalgin are tablet preparations.

**INTRALGIN GEL.** An alcoholic gel containing salicylamide and benzocaine. Though used in non-articular rheumatism and painful muscle conditions, Intralgin is not a counter-irritant, but acts by percutaneous analgesia. Other products for local use containing salicylate derivatives are Analjol (methyl and phenyl salicylates with camphor, etc.); Methylaspriodine liniment and balm (methyl acetyliodosalicylate). Preparations containing salicylates in association with rubefacients are exemplified by Algipan, Cremalgin, Salbin, Neonal and Transvasin.

**ONYCHOPHYTEX.**—*Active constituent:* Bortannic complex, stated to have a threefold action. By lowering the *pH* it provides an acid environment unfavourable to the growth of skin fungi; coagulating fungal protein gives a direct fungicidal action; reducing sweat secretion hinders fungal spread. Other fungicidal products are represented by Mycyl (chlorphenesin), Lineafax, Mycota, Dulciderm, Fitoban (preparations containing zinc undecenoate), Sopronol (sodium propionate) and Icoquil (hedaquinium).

**PABALATE** preparations.—Contain potassium salicylate and potassium *p*-aminobenzoate

either with or without hydrocortisone and are primarily intended for treating rheumatic conditions when factors such as hypertension, congestive heart failure or glomerulonephritis require reduced sodium intake. The plasma level of the salts is said to be increased when the two are given together, enhancing the anti-inflammatory action of the steroid. The known synergism of steroids and salicylates has favoured the introduction of products containing them. Typical preparations include Cordex, Deltageotril, and Co-actyl.

**PLANIDETS.** *Constituents:* Bromopropamide embonate, chlorphenocoum amsonate and butylaminobenzoate. The former has a marked antibacterial action against many pyogenic cocci, gram-negative organisms and staphylococci. Chlorphenocoum has both antibacterial and antifungal properties, and butylaminobenzoate is a surface anaesthetic. Other antiseptic throat lozenges which also contain a local anaesthetic include Phenidex, Hibitane, Tyrosolven and Tyrosets.

**PREDNELAN-N.** *Constituents:* Prednisolone acetate with neomycin. The product is intended for intra-articular injection, and as infection may be lowered following such injections of corticosteroids, tissue resistance to neomycin is included as a safeguard against possible bacterial attack. EtCortelan with neomycin is similar but contains hydrocortisone as the steroid component.

**RI-SOCHIN.**—*Chemistry:* Chloroquine diphosphate, a widely-employed synthetic antimalarial. In recent years the compound has proved effective in apparently unrelated conditions.

The mode of action is obscure, and there is a long latent period before improvement occurs. Rheumatic patients, unresponsive to steroid therapy, are sometimes relieved by chloroquine, suggesting that the drug has no direct connection with the pituitary-adrenocortical system. Other chloroquine preparations include Avlochlor, and Nivaquine.

## AMERICAN LISTED DRUGS

**POLIOMYELITIS IMMUNE GLOBULIN (HUMAN)** for oral herpetiform lesions. For recurrent vesicular lesions of the mouth. Dosage is empirical but is normally 3-10 mils intramuscularly once or twice a week. Equal response has been obtained from 2.5-20 mils given every three or four days for six weeks. Data by Merck Sharp & Dohme Laboratories.

**RISTOCETIN.**—*Chemistry:* Chemistry of the two components (ristocetin A and B) is unknown. Product is made by fermentation of *Nocardia turida*, sp. *Actinomycetes*. It is active against pathogenic Gram-positive cocci (*in vitro*) progressively decreasing against *streptococci*, *enterococci*, *pneumococci* and *staphylococci*. Staphylococcal infections require a daily dose of 25-50 mgm. per kilo of body weight. Endocarditis calls for a dosage as high as 75 mgm. per kilo per day (equivalent to 6 gm. per day for a body weight of 165 lb.). Elderly patients or those with impaired renal function should receive half the normal dose to avoid cumulative effects. Data supplied by: Abbott Laboratories, Inc. Proprietary name: Spontin.

## WORLD TRADE

**Hungary to Increase Drug Output.**—Hungary plans to multiply its output of drugs twenty-five times by 1965 compared to 1949. Reconstruction of the country's three biggest medicine factories, the United Drug and Food, the Chinoim and the Kobanya has already begun with that end in view.

**Dutch Firm's Extensions in Argentina.**—A new works of Naarden Argentina was opened in Buenos Aires on November 27, the opening ceremony being performed by Dr. W. A. van Dorp (head of the parent company in Holland). The new building, of modern construction and design, houses offices, a laboratory, production plants for flavourings, perfume compounds, etc., and a store house.

**Australian Import Policy.**—Australia's overall import licensing level would be unchanged for the next four months, Mr. John McEwen, the Trade Minister, announced on December 1. But although the ceiling would be unaltered there would be changes in classification of goods mainly designed to widen access to the cheapest markets for raw materials which are an important item in Australian Industrial costs. Items to be licensed on a world basis would include: Silicones; laboratory materials for approved importers, chemicals for industrial and agricultural uses, chemicals and drugs for use in the manufacture of medicines.

**U.S. Pharmaceutical Drive Overseas.**—Charles Pfizer Co., New York, is to set up a subsidiary in Karlsruhe to supply its pharmaceutical products to the European Common Market, an official of the Karlsruhe town administration said on December 1. Construction of the subsidiary, including laboratories, plant and administrative buildings, would cost about D.M. 25 millions, the official added. Building was expected to start in

January 1959.—Applications for licences to export antibiotics and sulphonamides to the European Soviet bloc will now be considered for approval by the United States Department of Commerce. Previously, except for research purposes and certain emergency situations, applications to export these commodities to those countries were generally denied.

**Lanolin Plant Established in U.S.**—Croda Inc., New York (the U.S. subsidiary of Croda, Ltd., Goole, Yorks), has acquired the whole of the issued capital of the Hummel Lanolin Corp., a company recently formed to take over the lanolin and wool grease division of the Hummel Chemical Co., Inc., Brooklyn, N.Y. Hummel Lanolin Corp. is to continue to function as a subsidiary of Croda Inc. A modern



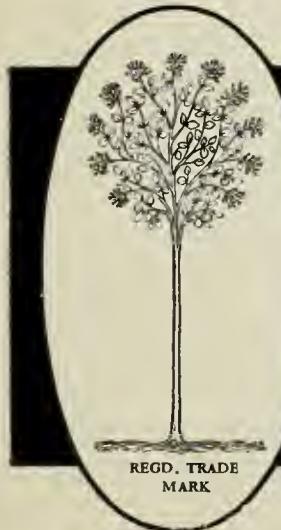
A section of the new plant in the United States. In the background are some of the refining vessels and in the foreground large wooden vats used for receiving waste by-products.

lanolin manufacturing plant has been established at 185 Foundry Street, Newark, N.J., which will supply the requirements of those companies as well as much of the needs of the Croda organisation on the American continent.

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**This new 60 gramme tube** of Savlon Antiseptic Cream – twice as big as the present 2/6d. size – will be welcomed by the public, because there are so many uses for Savlon Cream in the home. It will be particularly appreciated by mothers with very young children who use Savlon Cream against napkin rash.

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## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, DECEMBER 3: A steady call for PHARMACEUTICAL CHEMICALS was noted during the week with buyers more active in seasonal items like ASPIRIN and SODIUM SALICYLATE.

The 1-ton and over rates for BROMIDES were advanced one penny per lb. on the same day, but schedules for smaller quantities remained unchanged.

Slightly more interest was shown in CRUDE DRUGS but it was difficult to find evidence of that improvement being translated into buying. Ceylon CINNAMON QUILLS for shipment lost some of the firmness shown over the past few weeks, but Jamaican GINGER on the spot advanced 10s. per cwt. thus reversing its recent trend. GUM ACACIA was held at its recent advanced level. A fairly steady market has developed for HONEY with the Australian and New Zealand varieties showing no quotable change but Argentine and Jamaican materials eased by 5s. per cwt. Natural LIQUORICE ROOT continued scarce on the spot with only Persian material being offered. SARSAPARILLA for shipment was quoted at 2s. 6d. per lb., c.i.f., against 2s. 4d. in the previous week. Among AROMATIC SEEDS, Dutch CARAWAY was quoted somewhat easier at 125s. per cwt. (down 2s. 6d.).

## Pharmaceutical Chemicals

ACETIC ACID. — B.P. glacial in 10-ton lots is £104 per ton naked and technical £91. Carboys are £8 and demijohns, £10 per ton extra. Single carboys cost 1s. 8d. per lb. (3s. 8d. per kilo).

ALOIN. — Spot offers (14-lb. lots) are 28s. 9d. per lb.

ALUMINIUM HYDROXIDE. — One-cwt. lots of B.P.C. 1943 are 3s. 3d. per lb.

*p*-AMINOSALICYLIC ACID. — The SODIUM SALT is 22s. 6d. per kilo for 1,000-kilo lots with smaller quantities at 23s. 3d. The CALCIUM SALT is 38s. 7½d. and 39s. 6½d. per kilo for similar quantities.

AMMONIUM BICARBONATE. — The B.P. powder is £50 5s. per ton; CARBONATE is £81 10s. for lump and £85 10s. for powder, all delivered terms.

AMMONIUM CHLORIDE. — Makers quote 1-cwt. lots of B.P. powder at 90s. per cwt. and are quoting extra-pure crystals at 126s.

AMPHETAMINE.—One to 10-kilo lots are: BASE, from 140s. to 160s. as to quantity; SULPHATE is 110s. to 130s. and *d*-AMPHETAMINE SULPHATE, 40s. to 420s. for similar quantities.

ASPIRIN.—5-cwt. lots are 4s. 9d. per lb.; 1-cwt., 4s. 11d. The CALCIUM SALT is 12s. 6d. per lb.

ATROPINE.—Rates for 16-oz. (500-gm.):

	per oz.	per kilo
	s. d.	s. d.
ALKALOID ..	39 0	1375 0
HYDROCHLORIDE ..	36 0	1269 0
METHONITRATE ..	39 0	1375 0
METHYLBROMIDE ..	38 6	1357 0
SULPHATE ..	34 0	1198 6

BAIRUM SULPHATE. — 250-kilo lots of B.P. (x-ray) are now 3s. 3½d. per kilo.

BENTONITE.—Offers of B.P. material are about £70 per ton as to quantity.

BENZAMINE. — 16-oz. lots of LACTATE are 15s. 3d. per oz. and HYDROCHLORIDE 16s. 3d. per oz.

BROMIDES.—Prices per lb. are as follows:—

	1 cwt.	5 cwt.
	s. d.	s. d.
POTASSIUM ..	2 6	2 5
SODIUM ..	2 6	2 5
AMMONIUM ..	2 10	2 8½

The prices quoted are for crystals (powder is 1½d. per lb. more) packages free, carriage paid terms. The kilo rates for 50-kilo lots are 5s. 6d. for potassium and sodium and 6s. 3d. for ammonium.

BRUCINE. — ALKALOID and SULPHATE in 100-oz. lots is now 7s. 3d. per oz.

CAFFEINE. — Minimum rates for 5 cwt. or 250-kilos and over are as follows (kilo price in parentheses):—MONOHYDRATE, 17s. 6d. per lb. (38s. 9d.); ANHYDROUS, 18s. (39s. 9d.); CITRATE, 11s. 6d. (25s. 3d.); and SODIUM BENZOATE, 13s. 3d. (29s. 3d.); and SODIUM IODIDE, 22s. 6d. (49s. 6d.); and SODIUM SALICYLATE, 14s. 9d. (32s. 3d.).

CHLOROXYLENOL.—B.P. quality is 5s. 3d. per lb. for 1-cwt. lots and 5s. 1d. for 10-cwt.

CITRIC ACID. — Quotations (per cwt.) for domestic material are 225s. for 1-4 cwt. lots and 220s. for 5-cwt. lots.

CRESOL.—Price of B.P. quality from distillers is 7s. 9d. per gall. in 5-gall. lots.

DEXTROSE. — Rates are as follows:—MONOHYDRATE, B.P., 1-lb., 1s. 11½d.; 7-lb., 11s. 10d.; 28-lb., 43s.; free packages, less 12½ per cent. to wholesalers. In bulk, 1-ton lots, £90 ex works. ANHYDROUS, B.P., 7-lb., 14s.; 14-lb., 26s. 3d.; 28-lb., 49s. (terms as for monohydrate). 1-ton lots, £107 10s. ex warehouse.

DIPHENAN.—Prices range from 55s. 3d. (56-lb.) to 63s. (1-lb.) per lb.

EMETINE.—Price for 32-oz. lots of the HYDROCHLORIDE is 270s. per oz. The BIS-MUTH IODIDE is 127s. per oz.

ERGOMETRINE. — For 20-gm. lots the price of the MALEATE, B.P. is £17 10s. per gm. and the TARTRATE, £16 5s. per gm.

ETHER.—Prices (per lb.) in winchesters are as follows:—TECHNICAL B.S.S., and SOLVENT, 5-cwt. 2s. 7d.; (4s. 1½d. litre). In drums the price is 2s. 2d. per lb. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt. 3s. 9d.

FORMALDEHYDE.—B.P. solution in 1-4-drum lots is £39 15s. per ton; 5-drum lots are £38 15s. per ton.

GLYCEROPHOSPHATES.—Rates per lb. for 1-cwt. lots are as follows:—ACID, B.P.C., 20 per cent., 5s. 9d.; CALCIUM, soluble, B.P.C., 11s. 9d.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MANGANESE, soluble, B.P.C., 14s. 3d. and insoluble, 7s. 6d.; MANGANESE, B.P.C., 26s. 3d.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., B.P.C., 3s. 1d. and 75 per cent., B.P.C., 4s. 6d.

HEXAMINE.—B.P. is 1s. 11½d. per lb. for 1-ton lots, delivered in 1-cwt. kegs. Technical is threepence per lb. under those rates.

HYDROQUINONE.—Quotations for 1-cwt. lots are 11s. 6d. per lb. or 25s. 4d. per kilo.

HYOSCINE HYDROBROMIDE. — Price per oz. is 102s.

IRON SALTS. — GLUCONATE, B.P.C., is 6s. 3d. per lb. in 1-cwt. lots; SULPHATE, B.P. crystals are 9½d. per lb. in 28-lb. lots;

1-cwt. is 57s. 6d. per cwt. and 5-cwt., 52s. 6d. per cwt.; SULPHATE EXSICCATED is 1s. 5d. per lb. for 28-lb., 1-cwt., 123s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 9d. per lb.; 1-cwt., 3s. 6d. OXIDE, RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. AMMONIUM CITRATE, scales, 6s. 6d. per lb.; granular, 5s. 9d. AMMONIUM SULPHATE, 1-cwt., 1s. 10d. per lb. QUININE CITRATE, 2s. 1d. per oz. in 100-oz. tin.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; HEAVY is 160s. per cwt. for 15-cwt. lots and about 130s. per cwt. for 1-ton lots.

MAGNESIUM CHLORIDE. — One-cwt. lots are quoted at 1s. 10d. per lb.; 5-cwt., 1s. 7d.

MAGNESIUM HYDROXIDE.—Makers' prices for B.P.C. are 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM OXIDE, B.P.—Bulk rates are as follows:—LIGHT, 3s. 2d. per lb., and HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

MAGNESIUM SULPHATE.—Quotations for B.P. in minimum 1-ton lots vary between £18 and £21 per ton according to size of crystal and manufacturer. Exsiccated is £42 per ton. All ex works.

MAGNESIUM TRISILICATE. — In 28-lb. packages the prices (per lb.) are now as follows:—28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

OXALIC ACID.—Manufacturers' rates for 1-ton lots are from £128 10s. per ton, delivered in free kegs.

SODIUM ACETATE.—B.P.C. in 28-lb. lots is 2s. 4d. per lb.; 1-cwt. 2s., and 5-cwt., 1s. 11d.

SODIUM BROMATE.—1-cwt. lots are quoted at 9s. 9d. per lb.

SODIUM CARBONATE. — B.P.C. exsiccated is 70s. per cwt.; 5-cwt., 65s. per cwt.

SODIUM CHLORIDE. — Re-crystallised is 25s. per cwt. and B.P., 42s.

SODIUM METABISULPHITE. — Granular in 1-ton lots is from £48 12s. 6d. to £53 17s. 6d. per ton according to packing.

SODIUM PERBORATE. — Prices (per cwt.) are 145s. 9d. in 1-cwt. kegs; 138s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 309s. 9d. per cwt.

SODIUM PERCARBONATE. — Price (per cwt.) is 170s. 9d. (bags, 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

SODIUM PHOSPHATE. — B.P.C. powder is 2s. 3d. per lb.

SODIUM SALICYLATE.—Rates are now:—1-ton lots in bulk, 3s. 7d. per lb.; 5-cwt. 3s. 8d.; 1-cwt. 3s. 10d.

SODIUM SULPHATE.—Makers' prices for B.P. range from £12 10s. to £19 17s. 6d. per ton as to crystal and quantity, ex works.

SODIUM SULPHITE. — 1-ton lots on the spot of ANHYDROUS (48-50 per cent.) are £71 10s. per ton in 1-cwt. drums or £67 5s., in 1-cwt. bags. CRYSTALS, B.P.C., are £32 15s. per ton in 1-cwt. paper-lined bags. Commercial crystals are from £27 to £28 15s. as to packing.

SODIUM THIOSULPHATE. — Makers' price for 1-ton lots of photographic grade in paper-lined bags is £38 per ton.

## Crude Drugs

ACONITE. — Spot supplies of Spanish *napellus* are 2s. 6d. per lb.

AGAR.—Kobe is 10s. 6d. per lb., duty paid; new-crop for January–February 1959 shipment, 8s. 4½d.

ALOES. — Cape prime on the spot is 230s. per cwt. and for shipment, 205s., c.i.f.

ANISE (STAR).—Chinese is 110s. per cwt. c.i.f. and 135s. spot, duty paid.

BALSAMS. — Quotations per lb. are:— CANADA: Spot, 23s. COPAIBA: Para from 7s. 6d. to 9s. 6d., duty paid. PERU: Spot, 9s. 10d. in bond. TOLU (genuine as imported): 24s. B.P., 16s. 6d.

BELLADONNA.—Herb is 8s. 3d. per lb. on the spot. Root is 1s. 6d. spot; shipment, 1s. 3d., c.i.f.

BENZOIN.—Sumatra block on the spot is £22 to £28 as to quality.

BUCHU.—Spot rounds are 6s. per lb. and shipment, 5s. 9d., c.i.f.

CALAMUS.—Root is quoted at 1s. 4d. per lb., c.i.f.

CAMPHOR.—B.P. POWDER is from 4s. 3d. per lb., duty paid. TABLETS, ½-oz., are 6s. in bond.

CAPSICUMS. — East African are from 150s. to 200s. per cwt. on the spot.

CARDAMOMS.—Aleppo greens are offered on the spot at 15s. per lb.; December shipment is 13s. 6d., c.i.f.; Seeds, spot, 24s. 3d.; shipment, 19s. 6d., c.i.f.

CASCARA.—Spot 1957 peel, 260s. per cwt. 1958 peel, shipment, 250s., c.i.f.

CASSIA.—Extra-selected broken for shipment, 242s. 6d.; 210s. c.i.f. Spot: Whole 240s. and selected 230s., both in bond.

CHERRY BARK.—Thin natural is 1s. 5d. per lb., and rossed is 1s. 11d.

CHILLIES. — Spot Mombasa are 185s. per cwt. and Zanzibar, 225s.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb.; OOOO, 7s. 0½d.; OOO, 6s. 10½d.; OO, 6s. 9d.; seconds, 4s. 11d.; featherings, 1s. 9½d.; quillings, 4s. 4½d.; chips, 1s.

CLOVES. — Zanzibar on the spot are 3s. 1d. per lb.; shipment, 2s. 8½d., c.i.f.

COCILLANA.—Bark is 1s. 8d. per lb. on the spot.

COLOCYNTHI PULP.—Spot, 3s. per lb.

DIGITALIS LEAF.—Purpurea from 1s. 2½d. to 2s. 7d. per lb., c.i.f.

ERGOR.—Portuguese is 5s. per lb., c.i.f. for prompt shipment and 5s. 6d. spot nominal.

FRANGUA.—Spot is 105s. per cwt.

GENTIAN.—French is 170s. per cwt. on the spot.

GINGER.—African, 97s. 6d. per cwt. on the spot; for shipment, 90s., c.i.f. Jamaican No. 3 on the spot is 280s. per cwt.

GUM ACACIA. — Kordofan cleaned sorts are 142s. 6d. per cwt. on the spot; December shipment, 127s., c.i.f.; new-crop (January–February 1959) 120s., c.i.f.

HONEY. — Australian light-amber is 113s. to 117s. and medium amber 102s. 6d. to 107s. 6d. Argentine, 125s. to 130s.; Jamaican, 130s. to 135s.; New Zealand clover, 160s. to 170s.; all per cwt. on the spot.

HYOSCYAMUS.—Dutch leaves (*niger*) are 1s. 6½d. per lb., c.i.f., prompt shipment.

IPICACUANHA. — No offers for early shipment by primary shippers. Business done in Matto Grosso January–March by re-sellers at 52s. 6d. per lb., c.i.f.

KARAYA. — No. 1 gum on the spot is quoted at 235s. per cwt. No. 2 at 165s.

KOLA NUTS. — Jamaican spot market cleared, shipment, 7d. per lb., c.i.f. African 5d. to 5½d. spot and 4d., c.i.f.

KRAMERIA.—Root is quoted at 90s. per cwt.

LANOLIN. — ANHYDROUS, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL. — Spot is offered at 5s. per lb.

LIQUORICE. — Natural root: Persian on the spot is 47s. 6d.; for shipment, 42s. 6d., c.i.f., per cwt. Block juice: Anatolian and Chinese, 190s. per cwt. Italian stick from 310s. to 476s. per cwt. Spray dried extract, 2s. 10½d. per lb.

LOBELIA HERB. — Spot offers of American are 4s. 6d. per lb. and for shipment, 3s. 6d., c.i.f. Dutch 3s. 1d., c.i.f. for shipment.

MACE. — Whole on the spot is from 23s. 6d. per lb.

MERCURY. — Price per flask (76 lb.) is £74 on the spot.

NUTMEGS.—West Indian 80's. 17s. per lb., spot; sound unassorted, 13s. 9d.; defectives, 12s.

ORANGE PEEL. — West Indian bitter quarters are 11d. per lb.; Spanish, 1s. 8d., as to quality, thin-cut Tripoli, 2s. 3d.

ORRIS ROOT. — Florentine is 330s. per cwt.

PAPAIN.—Shipment is 24s. per lb., c.i.f., for grade one, spot, 25s.

PEPPER.—White Sarawak spot, 2s. 7½d. per lb., December shipment, 2s. 7½d., c.i.f.; Black Sarawak spot, 1s. 7½d.; December–January shipment, 1s. 6½d., c.i.f. Black Malabar quoted at 212s. 6d. per cwt. on the spot; new-crop for December–January shipment, 187s. 6d., c.i.f.

PIMENTO.—Spot value is 540s. per cwt. landed; shipment, 511s. 6d., c.i.f.

PODOPHYLLUM. — *Emodi*: 230s. per cwt., c.i.f., shipment. *Peltatum*, on the spot, 4s. 3d. per lb.; shipment, 450s. per cwt., c.i.f.

PYRETHRUM.—Extract, minimum 25 per cent, w/w pyrethrins, is 75s. per lb. for small lots.

QUASSIA.—Chips have been cleared on the spot and no shipment offers.

QUILLIA.—Spot offers of whole bark at 140s. per cwt.; cut, 170s. Whole for shipment, 110s., c.i.f.

RAUWOFIA. — *Canescens*, 2s. per lb., c.i.f.; *Vomitoria*, 2s. 3d., c.i.f.; *Serpentina*, 6s., c.i.f. asked.

RHUBARB. — Chinese small to medium offering from 6s. to 7s. 6d. per lb., as to quality. Best grades not available on spot.

SAFFRON. — Spanish is quoted at 230s. per lb.

SEEDS.—(Per cwt.) — ANISE.—Spanish, 160s.; Turkish, 140s., both duty paid.

CARAWAY. — Dutch easier at 125s., duty paid. CELERY.—Indian quiet at 180s. on spot. For shipment, 130s., c.i.f., for December–January. CORIANDER. — Moroccan quiet at 54s. spot, duty paid. SHIPMENT unchanged at 44s., c.i.f.

CUMIN.—Cyprian, 260s. spot and Iranian, 260s. duty paid. DILL.—Indian offering at 70s., spot; shipment, 58s. to 59s., c.i.f. FENNEL.—Chinese, 150s., duty paid; Indian, 170s.

FINUGREEK.—Moroccan, 45s., duty paid. MUSTARD.—English, 125s.; Danish, 95s., duty paid.

SENEGA.—Spot offered at 14s. 6d. per lb.; shipment, 14s. 6d., c.i.f.

SUNNA.—*Timnevelly* LEAVES. prime No. 1, 1s. 5d. per lb., f.a.q., No. 3, 10d. PDS, manufacturing short at 1s. 6d. and hand-picked, 2s. 1d. to 2s. 4d. *Alexandria* pods: Manufacturing, offered from 1s. 6d. with hand-picked from 5s. to 6s.

SQUILL.—White is quoted at 80s. per cwt. on the spot.

TURMERIC.—Madras finger is 62s. 6d. on the spot; current crop for shipment, 59s., c.i.f.

## Essential and Expressed Oils

ALMOND. — British oil is 9s. per lb. Moroccan, 6s. 9d., in bond.

AMBER.—Rectified on the spot is 1s. 6d. per lb.

BERGAMOT. — Spot supplies are from 86s. 6d. per lb.

CAJUPUT.—Spot supplies are from 10s. per lb.

CASSIA.—Spot is 13s. 3d. per lb.; shipment, 13s. 6d., c.i.f.

CELERY SEED. — Oil is 90s. per lb. for bulk lots.

CHENOPODIUM.—Spot value is 36s. per lb. for original containers.

CINNAMON. — From quillings, best English-distilled is 50s. per oz.; other B.P. oils from 165s. per lb. Ceylon, leaf, spot, 11s. 6d. per lb.; shipment, 10s. 10½d., c.i.f., rectified, 15s. per lb.; Seychelles, 6s. 6d., spot.

CITRONELLA.—Ceylon, spot is 4s.; shipment, 3s. 5d., c.i.f. Formosan, spot 3s. 10½d. in bond; shipment nominal.

CUBEBS.—Small spot supplies of imported are 65s. per lb.

GINGER.—English-distilled oil is 160s. per lb. Imported: Jamaican, 130s.; Chinese, 100s., duty paid.

ORANGE.—Spot quotations of sweet oil include Floridian at 12s. 6d. per lb.; Californian, 15s.; West Indian, 12s.; West African, 24s. 6d.; Israeli, 16s. 6d. For prompt shipment, Californian cold-pressed U.S.P., 16s. 9½d., c.i.f.; distilled, 6s. 5d., c.i.f. Terpeneless is 200s. per lb., spot.

PEPPERMINT.—*Arvensis*: Chinese is 24s. 6d. per lb. on the spot and 21s. 6d., c.i.f. Brazilian, 8s., spot, and 7s. 6d., c.i.f. Formosan, 16s. 9d., spot; new-crop for November–December shipment, 15s. 3d., c.i.f.

*Piperita*: Italian "Mitcham"-type from 42s. 6d. to 50s.; American 27s. 6d. to 30s., as to origin.

RUE.—Spanish is 25s. per lb. on the spot.

SPEARMINT.—Offers of U.S.P. grade are from 45s. per lb. on the spot. New-crop for shipment, 45s., c.i.f. Chinese, 23s., spot.

## UNITED STATES REPORT

NEW YORK, DECEMBER 2: A producer has reduced TYROTHRICIN to 54 cents a gm. (down one cent) and GRAMICIDIN to \$4.70 a gm., down 15 cents. Powdered KARAYA was cut three cents to 30 cents a lb. Haitian VETIVER OIL was strong and advanced to \$11.50 a lb., up 75 cents, while West Indian SWEET ORANGE OIL at \$2.50 was down 25 cents per lb.

The U.S. Tariff Commission, which has made public a factual report on the MERCURY industry, has put forward no recommendations to change U.S. tariffs. The lengthy report states that U.S. producers had found it more profitable to sell to the General Services Administration when the New York market price was less than about \$232 to \$233 per flask. When the New York price rose above that level in July 1958, sales to industrial consumers on the eastern seaboard were resumed. The Government purchase programme had thus had the effect of preventing the New York market price from reaching levels much below \$232 to \$233. That brake on the decline in New York market prices would be eliminated, however, with the termination of the Government purchase programme at the end of this year.

## TRADE MARKS

## APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," November 12

For pharmaceutical preparations and substances for human use (5)

MELFAX, 780,236, by Anglo-French Pharmaceuticals, Ltd., London, W.C.1.

For electric shaving instruments (8)

ARIEL, 777,788, by Ariel Heller, London, E.C.2.

For photographic cameras, stereoscopes, photographic enlarging lanterns, photographic daylight enlargers, magnifying glasses, and parts and fittings (9)

CORONET-ALL DISTANCE, 779,074, by Coronet, Ltd., Birmingham.

For photographic apparatus and instruments and parts (9)

SPORTSLITE, 780,028, by Ilford, Ltd., Ilford, Essex.

For surgical and veterinary instruments and apparatus (10)

CAPOMATIC, 779,423, by Boots Pure Drug Co., Ltd., Nottingham.

For non-medicated absorbent paper tissues for industrial use (16)

KIMIWIPES, 776,139, by Kimberly-Clark Corporation, Neenah, Wisconsin, U.S.A.

For cabinets (not being furniture) for containing and dispensing towels (21)

TOWELOMATIC, 776,140, by Kimberly-Clark Corporation, Neenah, Wisconsin, U.S.A.

From the "Trade Marks Journal," November 19

For non-medicated toilet creams not being cleansing preparations (3)

PETAL TOUCH, B771,431, by Ronald Herbert Mascall, Leeds, Yorks.

For pharmaceutical products (5)

VASELASTICA, 769,247, by Biochemisch Pharmaceutisch Laboratorium Enzypharm, Soestdijk, Holland.

For pharmaceutical preparations and substances for human and veterinary use (5)

ELIPTEN, 773,475, by CIBA, Ltd., Basle, Switzerland.

For deodorants (5)

AEROSAN, 775,049, by Samuel Wachman, London, N.16.

For analgesic preparations (5)

BAMIL, 775,088, by A.B. Hassle, Apotekare Paul Nordströms Fabriker, Gothenburg, Sweden.

For pharmaceutical preparations (5)

ENDOXAN, B775,865, by Astawerke, A.G., Brackwede, Germany. SERENONE, 777,421, by A. H. Robins Co., Inc., Richmond, Virginia, U.S.A. NILATIL, 779,706, by A.B. Pharmacia, Uppsala, Sweden.

For preparations containing detergents for sterilising dairy equipment (5)

EYDOSAN, 777,359, by Thomas Pettifer &amp; Co., Ltd., Eydon, Rugby.

## PRINT AND PUBLICITY

## PUBLICATIONS

## Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists. THE BRITISH DRUG HOUSES, LTD., Graham Street, London, W.1: "Pectamol" (Information card); "Winter Ailments" (15-p. booklet).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Oblivon-C" (Information card); "Neo-Mercazole" (2-p. folder); "Androgeston" (Information card).

GLAXO LABORATORIES, LTD., Greenford, Middlesex: "Predsol-N nasal spray"; "Polivirin" (Information cards).

LEDA CHEMICALS, LTD., Berk House, P.O. Box No. 500, Portman Square, London, W.1: "Degranol" (9-p. booklet).

PAINES &amp; BYRN, LTD., Pabyrn Laboratories, Perivale, Greenford, Middlesex: Pancrex preparations (2-p. folder).

PHARMACEUTICAL SPECIALTIES (MAY &amp; BAKER), LTD., Dagenham, Essex: "Protamyl"; "Rovamycin"; "Phenergan" (Information cards).

BRITISH COUNCIL, Librarian, Medical Department, 65 Davies Street, London, W.C.1: British Medical Book List, Vol. 8, No. 10, pp. 67-72.

CHINESE IODINE EDUCATIONAL BUREAU, Chile House, Ropemaker Street, London, E.C.2: Current Iodine Literature, Vol. 5, No. 13, 1958, pp. 1634-1746.

IMPERIAL CHEMICAL INDUSTRIES, LTD., Nobel Division, Silicone Department, Ardeer Factory, Stevenston, Ayrshire: I.C.I., Silicone Rubbers, pp. 26.

GLASS MANUFACTURERS' FEDERATION, 19 Portland Place, London, W.1: Looking at the British Glass Industry, pp. 2.

MOND NICKEL CO., LTD., Thames House, Millbank, London, S.W.1: The Nickel Bulletin, September/October 1958, Vol. 31, 9-10, pp. 254-285.

TIN RESEARCH INSTITUTE, Fraser Road, Perivale, Greenford, Middlesex: Tin and Its Uses, Autumn, 1958, No. 44.

A. WANDER, LTD., 42 Upper Grosvenor Street, Grosvenor Square, London, W.1: Ovaltine Research Laboratories, Annual Report, 1957, pp. 8.

## Price Lists

PHARMACEUTICAL SPECIALTIES (MAY &amp; BAKER), LTD., Dagenham, Essex: Medical Products, 1958.

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 24: Druggist Sundries "B" list, October 1958.

## PRESS ADVERTISING

## Press Advertising

THE CANNON RUBBER MANUFACTURERS, LTD., Cannon Works, Ashley Road, Tottenham, N.17: Cannon rubber hot-water bottles, *Daily Mirror*, *Daily Sketch*.

RADIOL CHEMICALS, LTD., Radian House, 78 Upper Richmond Road, London, S.W.15: Radian-B, National and provincial newspapers. Radian-A, National women's magazines.

## COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies. Where known, the number of appearances of the product during the week is shown in parentheses.

\*National Pharmaceutical Union.

## December 14-20

## LONDON

Amami wave set (3). Alka-Seltzer, Anadin (4). Andrews liver salts (3). Anestan, Aspro (3). Ajax cleanser, Beecham's pills (3), powders (5). Brylcreem (3). Cadum soap, Camay soap (2). Colgate dental cream, Cussons bath cubes (2). Eno's Fruit Salt (2).

## Wednesday, December 10

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 142A St. Vincent Street, at 7.45 p.m., Dr. J. A. Imrie (lecturer in forensic medicine, Glasgow Royal Infirmary) on "The Abuses of Poison."

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Bay Horse inn, Burnt Yates, Annual dinner and dance, Coach leaves art school, Victoria Avenue, at 7.30 p.m.

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, Wellcome Building, 183 Euston Road, London, N.W.1, at 7 p.m., Dr. H. J. Parish (clinical research director, Wellcome Foundation) on "Recent Advances in Immunisation."

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Hanbury restaurant, Liverpool, at 7 p.m., Annual dinner.

MICROCHEMISTRY GROUP, SOCIETY FOR ANALYTICAL CHEMISTRY, Feathers hotel, Tudor Street, Lon-

## Friday, December 12

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Turk's Head hotel, High Street, at 7.30 p.m. An evening with Karl Pollack.

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Cranbourne rooms, Hatfield, at 8 p.m., Annual buffet dance.

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Northampton College of Advanced Technology, St. John Street, London, E.C.1, at 7 p.m. Dr. J. K. Aiken on "The Application of Sequestering Agents."

Famel syrup, Fynnon salt, Gleem tooth-paste, Horlicks, Lucozade (3). Maclean's indigestion remedies (2), Max Factor beauty preparations (2), Milk of Magnesia, Moorland indigestion tablets (2), NuSun hot-water bottles\*, Owbridge's lung syrup, Penetrol inhalant, Phensic (2), Phosferine (3), Phyllosan (3), P.L.J. (3), Remington Rand shavers (10), Ribena, Ronson electric shavers (3). Silvikrin leaf shampoo (2), Suba-Seal hot-water bottles\*. Sun-orange Quosh (4), Trojan soap-filled pads, Twink home permanent (4), Veno's cough mixture (4), Whitecross television glasses.

## MIDLAND

Amami wave set (3), Alka-Seltzer (2), Anadin (2), Andrews liver salts (3), Anestan, Aspro (4), Ajax cleanser, Beecham's pills (2), powders (4), Brylcreem (3), Cadum soap, Camay soap (2), Carter's little liver pills (3), Colgate dental cream, Cussons bath cubes (3), Delsey toilet tissues. Famel syrup, Fynnon salt, Gleem tooth-paste, Iron Jelloids, Lucozade (4). Mac throat sweets, Maclean's indigestion remedies (2), Max Factor beauty preparations (2),



**TV FILMS:** Mr. A. D. Webber (managing director, Pifco, Ltd.), demonstrates the correct use of the Pifco electric massager on a Paris model in an advertising film that is having nationwide showing on British television screens. A cartoon film to advertise Pifco electric blankets that is having a similar wide television screening was also made in Paris.

(\*) Milk of Magnesia, tablets, Moorland indigestion tablets, Owbridge's lung syrup, Penetrol inhalant, Phensic (2), Phosferine (3), Phyllosan (3), P.L.J. (3), Remington Rand shavers (10), Ribena, Ronson electric shavers (3).

Silvikrin leaf shampoo (2), Sun-orange Quosh (2), Thru (2), Trojan soap-filled pads, Twink home permanent (3), Veno's cough mixture (3), Whitecross television glasses.

## NORTH

Amami wave set (3), Alka-Seltzer, Anadin (3), Andrews liver salts (3), Anestan, Aspro (6), Ajax cleanser, Beecham's pills (4), powders (4), Brylcreem (3), Cadum soap, Camay soap (6), Cephas (4), Colgate dental cream, Cussons bath cubes (2).

Famel syrup, Fennings' little healers, Fynnon salt, Iron Jelloids (3), Knight's Castile soap (2), Lucozade (4).

Mac throat sweets (2), Maclean's indigestion remedies (2), Max Factor beauty preparations (2), Milk of Magnesia, tablets, Moorland indigestion tablets, Morny toilet preparations\*. Owbridge's lung syrup, Penetrol inhalant, Phensic, Phosferine (3), Phyllosan (3), Remington Rand shavers (2), Ribena (3), Ronson electric shavers (3).

Setters, Silvikrin leaf shampoo (2), Sun-orange Quosh (2), Twink home permanent (4), Veno's cough mixture (3), Whitecross television glasses.

## SCOTLAND

Anadin (3), Andrews liver salts (3), Anestan, Askit (12), Aspro (3), Ajax cleanser, Beecham's powders (4), Brylcreem (3), Cadum soap, Colgate dental cream, Cussons bath cubes.

Famel syrup, Farley's infant food (2), Fynnon salt, Knight's Castile soap (8), Lucozade (5).

Mac throat sweets (2), Maclean's indigestion remedies (2), Max Factor beauty preparations, Milk of Magnesia (2), tablets (2), Moorland indigestion tablets, Nemakol, Penetrol inhalant, Phensic (3), Phosferine, Remington Rand shavers (4), Ribena (3), Ronson electric shavers (3).

Silvikrin pure, leaf shampoo (2), Sun-orange Quosh, Thru, Twink home permanent (3), Veno's cough mixture (3), Vosene shampoo, Zubes.

## WALES

Amami wave set (3), Alka-Seltzer (2), Anadin



**SEASONAL TELEVISION:** Coinciding with a heavy Press campaign in national Sunday and provincial newspapers and national dailies, Ronson Products, Ltd., Leatherhead, Surrey, are running a concentrated commercial television campaign for the Ronson electric shaver. Illustrated is a still from one of the "spots."

(4), Andrews liver salts (3), Anestan, Aspro (6), Ajax cleanser, Beecham's pills (3), powders (4), Brylcreem (3), Cadum soap, Camay soap (4), Colgate dental cream.

Fynnon salt (2), Germolene (4), Knight's Castile soap (6), Lucozade (5).

Maclean's indigestion remedies (2), Max Factor beauty preparations (2), Milk of Magnesia, Moorland indigestion tablets, Owbridge's lung syrup, Phyllosan (3), Punch and Judy toothpaste, Remington Rand shavers (3), Ribena (3), Ronson electric shavers (3).

Silvikrin leaf shampoo (2), pure, Sun-orange Quosh, Thru, Twink home permanent (4), Veno's cough mixture (3), Whitecross television glasses (4).

## SOUTH

Andrex toilet tissues (6), Aspro (3), Ajax cleanser, Beecham's powders (3), Brylcreem (3), Cadum soap, Camay soap (2), Colgate dental cream, Cussons bath cubes.

Fennings' little healers, Fynnon salt (2), Gleem tooth-paste, Lucozade.

Max Factor beauty preparations (2), Milk of Magnesia, Moorland indigestion tablets, Owbridge's lung syrup (2), Ribena (3), Ronson electric shavers (3).

Silvikrin leaf shampoo (2), Twink home permanent (3), Valderma (6).

## C. &amp; D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; \* = Tax 30 per cent.; † = Tax 60 per cent.

BEECHAM PHARMACEUTICALS, LTD. (from December 1)			
	Doz.	1.R.P.	
Beecham's pills*	13 10	1 10 A	
powders* and tablets*	13 10	1 10 A	
Phensic*	14 2	1 10 A	
	4 Doz.		
envelopes (48's)	136 0	5 A	
	Doz.		
Phosferine tablets*	13 10	1 10 A	
liquid	13 10	1 10 A	
Beecham's infants' powders	13 10	1 10 A	
Cifca tablets*	13 10	1 10 A	
Dr. Cassells tablets	17 7	1 10 A	

BURROUGHS WELLCOME & CO.			
Tabloid quinine bisulphate			
Each			
gr. 2	25	1 4	2 0 A
	100	3 10	5 9 A
gr. 5	25	2 4	3 6 A
	100	7 4	11 0 A

COLGATE-PALMOLIVE, LTD. (from December 1)			
Palmolive soap*			
	9 A		
	1 3 A		
Cadum soap*		9 A	
	1 3 A		
Ajax		10 A	
	1 3 A		

CROOKES LABORATORIES, LTD. (from November 21)			
Pectohalm* tube 1 oz.			
	2 0	3 71 R	

CUPAL, LTD.			
Cupal halibut-liver oil capsules			
	100	3 0 R	

GLAXO LABORATORIES, LTD. (from December 1)			
Intradex			
	540 mils	22 6	30 0 R

IMPERIAL CHEMICAL INDUSTRIES, LTD.			
	Doz.		
Lapaquin tablets*	20	48 0	7 31 R
	500	76 0	136 10 R

THOMAS HEDLEY & CO., LTD. (from December 1)			
	6 Doz.		
Drene shampoo*	30 0	8 A	
	41 2	11 A	

KODAK, LTD. (from December 1)			
Cameras*:			
Brownie reflex	42 4 R		
Kodak junior I	79 4 R		
junior II	111 8 R		
sterling II	155 9 R		

(Reduced prices operative in the Republic of Ireland for the four models respectively are: 41s. 6d.; 78s.; 109s. 6d.; 152s. 6d.)

WILLIAM MARTINDALE WHOLESALE, LTD. (from December 1)			
	Doz.		
Anepidem tablets*	31 6	4 31 A	

WRIGLEY, LAYMAN & UMLEY, LTD.			
Wrigley's Coal Tar liquid soaps			
shampoo*	10 10	1 6 A	
	16 3	2 3 A	
Coal Tar inhaler and vaporiser	Each		
	5 11	7 11 A	

## P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

## ADDITIONS TO THE LIST

	Doz.		
Tympalgin ear drops $\frac{1}{2}$ oz.	24 9	3 5	
dispensing pack $\frac{1}{2}$ oz.	36 0	4 0	

## NEW PRODUCTS AND PACKS

ABBOTT LABORATORIES, LTD.			
Compoceilin VK granules			
	Each		
Erythrocin I.M.	60 mils	10 0	15 0

BURROUGHS WELLCOME & CO.			
Ovigest elixir			
	25 mils	12	45 0

DISTILLERS CO. (BIOCHEMICALS), LTD.			
Corrected note!			
Distamphen injectors Strep-taquine 1 in 4 2 mils 25 43 9			

HILL'S BALSAM, LTD.			
Hill's junior balsam*			
	2 mils	6	2 9

IMPERIAL CHEMICAL INDUSTRIES, LTD.			
Savlon cream			
	60 gm.		4 6

IMPERIAL CHEMICAL INDUSTRIES, LTD.			
Lederco cort tablets			
	2 mgm.	30	31 6

<tbl\_r cells="1" ix="1" maxcspan="4"

a new  
and most  
effective  
way of  
treating  
sore  
throats

**TYROMIST**  
ANTIBIOTIC  
THROAT SPRAY  
For prompt relief  
of sore throat

## **TYROMIST** *antibiotic THROAT SPRAY*

**Sprays straight on to the inflamed area**

*Formula :*

Tyrothricin	0.02%
Cetrimide	0.05%
Amethocaine hydrochloride	0.05%

*Sample and literature from*

**BRITISH SCHERING LTD** • 229-233 Kensington High Street • London W.8 • WEStern 8111

*An old and tried favourite with a 25% profit margin*

# BAUMOL SOAP

single wrapped tablets in a display outer of 1 dozen selling at  $1/3\frac{1}{2}$ d. per tablet (inc. P.T.) unwrapped tablets in a box of 3 selling at  $3/10\frac{1}{2}$ d. per box (inc. P.T.)

TRADE PRICE: 10d. per tablet (plus 3d. P.T.)

PROFIT: per tablet  $2\frac{1}{2}$ d. per box  $7\frac{1}{2}$ d.  
from all wholesalers

DUNCAN FLOCKHART OF EDINBURGH



Duncan, Flockhart & Co., Ltd., Edinburgh 11

ABA/11/57P

for **ASTHMA** and Allied Chest  
Complaints, you can safely recommend —

## RIDDOVYDRIN ASTHMA INHALANT

—A BIOLOGICAL PREPARATION CONTAINING VITAMIN C

**RIDDOVYDRIN** gives Rapid and Prolonged  
Relief to the most Chronic Cases.

SAMPLES AND LITERATURE FREE ON REQUEST

TOGETHER WITH

## RIDDOPAG PLASTIC INHALER

WITH OR WITHOUT MASK

— UNBREAKABLE —

Gives a Fine Dry Vapour Free of Drops

MAY BE SUPPLIED ON E.C.10 FORMS

**40% DISCOUNT ALLOWED ON ALL INHALERS**  
RETAILING FROM 9/6d. TO 58/6 TAX FREE



## RIDDELL PRODUCTS LTD.

HEAD OFFICE

RIDDELL HOUSE,  
10-14 DUNBRIDGE STREET, LONDON, E.2

Phone: SHOreditch 7254 6

BRANCH OFFICE:

11 MANSFIELD CHAMBERS,  
ST. ANN'S SQUARE, MANCHESTER, 2

Phone: BLA. 2894

# FIGGERROLLS

will help to increase your sales of

# STARCH-REDUCED ROLLS

• • • • • • • • • • • • • • • • • • •

## A NEW FLAVOUR FOR DIABETICS AND SLIMMERS

Diabetics and slimmers alike will welcome the appetising whole wheat flavour of starch-reduced Figgerrolls—crisp and delicious, they are a delicious break in the monotony of an ordinary low starch diet. Figgerrolls are made with nutritionally valuable fresh wheat gluten, and they are enriched with specially processed wheat germ and the most nutritious parts of the bran. In the manufacture of Figgerrolls every care is taken to ensure that each roll contains the stated amount of protein.



### ANALYSIS

For diatetic or medical purposes

	Gm./oz.
Protein (N X 5.7) .....	11.5
Carbohydrates .....	11.7
Fat .....	1.4
Salt .....	0.6

Calories 107 per oz.  
Four Figgerrolls  
weigh approx. 1 oz.

### TRADE TERMS

12 x 30 roll packs 24/- per case  
24 x 10 roll packs 23/- per case  
Order from your usual wholesaler

**WHITWORTH'S**  
STARCH-REDUCED  
**FIGGERROLLS**

WHITWORTHS HOLDINGS LIMITED • WELLINGBOROUGH • NORTHANTS



## WHY PARENTS WILL BUY SPECIAL ASPIRIN FOR THEIR CHILDREN

Many parents find it difficult to measure sub-doses of adult aspirin when they have to administer them to children. More of them are asking for a special children's aspirin, and many are asking for Angiers Junior Aspirin by name. Big advertising in Press and Television will stimulate this demand and explain why special children's aspirin should be administered.

*You can confidently recommend* Angiers Junior Aspirin because it is correctly measured to the safe child's dose of  $1\frac{1}{2}$  grains of aspirin per tablet. They are orange-flavoured and coloured, easy for parents to administer and pleasant for children to take. They also contain  $1\frac{1}{2}$  grains of Di-calcium Phosphate per tablet, to check any possible salicylic irritation of sensitive stomachs.

**ANGIERS JUNIOR ASPIRIN**  
*Specially made for children*



**JKL**  
BOTANICALS  
CHEMICALS  
GUMS

**ESSENTIAL OILS  
SPICES  
WAXES**

NEW YORK

**IPECAC**  
**SENEGA**  
**STYRAX**  
**STRYCHNINE**  
**TANNIC ACID**

HAMBURG

**JOHN KELLYS (LONDON) LTD.**  
**24 OLD BROAD STREET, E.C.2.**

Telephone: LONDON Wall 6585 (4 lines)  
Telegrams: "Ergotine, Stock, London"

**NEW!**

**COLBY NYLITE\***

NYLITE is the new lightweight Nylon Elastic Yarn stocking with the *super-soft* finish.

NYLITE gives firm support and its unusually soft texture makes it extra comfortable to wear. 2-way stretch and seamless, this hose has a smooth, matt look and may be worn confidently without overhose.

NYLITE may be supplied against N.H.S. prescriptions

Trade price 35/6 per pair

In normal stocking sizes  $8\frac{1}{2}$ , 9,  $9\frac{1}{2}$ , 10,  $10\frac{1}{2}$

Order a stock of this important new stocking now. Samples on request.

**COLBY PRODUCTS LIMITED**  
314 EUSTON ROAD, LONDON, NW1.  
Trade Mark \*





# *Knoll*® Fine Chemicals

enjoy world-wide  
reputation

**Barbonin®**

(6,7-diaethoxy-1-[3,4-diaethoxy-benzyl]-  
isodihydroline)

**Bromoisovalerylurea** (Bromvoletone B.P.C.)

**Caffeine Alkaloid and salts**

**Ephedrine, its salts and derivatives**

**Papaverine and its salts**

**Pentamethylenetetrazol** (Leptazol B.P.)

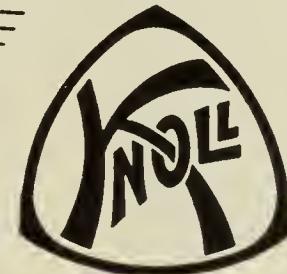
**Theophylline, its salts and derivatives**

**Theophylline Ethylene Diamine**

\*

*Knoll*® Fine Chemicals are  
distinguished by their purity  
and meet the requirements  
of the prominent  
pharmacopœias.

Marketed by  
**Alwitt Trading Co., Ltd.**  
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**LONDON, E.C.2**



*When Quality Counts . . .*

*. . . Fine Chemicals from*

# SIEGFRIED

SIEGFRIED LTD. ZOFINGEN SWITZERLAND

## PHARMACEUTICAL PRODUCTS OF HIGHEST STANDARD

Analgesics      Anæsthetics      Disinfectants  
Hypnotics      Sympathomimetics

*Complete list available from sole U.K. agents*

**HUFFER & SMITH LTD., NEW ERA WORKS, PURLEY WAY,**

*Tel: Thornton Heath 4266-7      CROYDON, SURREY      Cables: Santonic, Croydon*

All Siegfried products meet Pharmacopœia-specifications. A large variety of modern manufacturing facilities is at the disposal of our customers for special (exclusive) production.



## CORKS

### PRESCRIPTION BOTTLES

require top grade cork stoppers which permit no leakage.

Chemists who know from experience, continually specify Robinson Corks—the first class quality never varies.

*Write for full details  
and prices to:—*



**ROBINSON BROS**

CORK GROWERS LTD.

21 HORTON STREET · HALIFAX

*London Address: 54-62, Regent Street, London, W.1. Tel: GER 3965/8*



A Quality product...  
Consistent National &  
T.V. advertising...  
High profit margin...

**Dr. WERNET'S  
POWDER**

*The best-seller in Denture Fixatives*

STAFFORD-MILLER LTD

HATFIELD

HERTS

Now is  
the time when



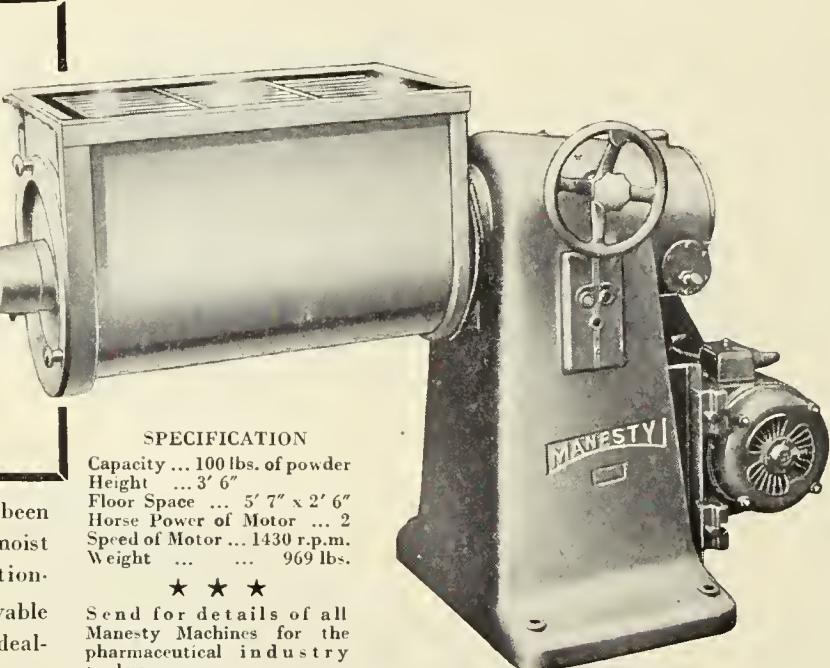
are in greatest  
demand

THE  
**MANESTY**  
STAINLESS STEEL  
**MIXER**

The MANESTY 'H' Stainless Steel Mixer has been designed for the intimate mixing of powder or moist masses and is especially suitable for tablet granulation. The powerful geared drive and sturdy removable paddle make the Manesty 'H' Mixer ideal for dealing with difficult or sticky ingredients.

Transparent plastic lid, safety guard. Tilts to empty.

Write to-day for full details.



SPECIFICATION

Capacity ... 100 lbs. of powder  
Height ... 3' 6"  
Floor Space ... 5' 7" x 2' 6"  
Horse Power of Motor ... 2  
Speed of Motor ... 1430 r.p.m.  
Weight ... 969 lbs.

★ ★ ★

Send for details of all  
Manesty Machines for the  
pharmaceutical industry  
to-day.



# MANESTY MACHINES LIMITED

DEPT. 5 · SPEKE · LIVERPOOL 24

Telephone: Hunts Cross 1972. Telegrams: Manesty, Liverpool 24

TABLET MACHINES · COATING PANS · AUTOMATIC WATER STILLS · GRANULATORS · PUNCHES & DIES

**"RELIANCE"  
NATURAL SPONGES**

CRESSWELLS  
HAVE GIVEN SATISFACTION  
TO THEIR CUSTOMERS FOR  
ONE HUNDRED AND FIFTY YEARS

*Natural  
Deep Sea Sponges*

To display a natural deep sea sponge is to sell it—  
because discriminating customers know that it is  
softer and kinder to the skin, and more lasting  
and more hygienic than any substitute—as well as  
holding three times as much water.

Cresswell's offer the best of the sponge  
crop. Please write for our price lists, and  
when in the West End of London a visit to  
make your own selection is welcomed.

**CRESSWELL BROS. SPONGES**

3-9, EARLHAM STREET, CAMBRIDGE CIRCUS, LONDON, W.C.2

Telephone: TEMple Bar 5331

**New! 3 star  
Flush  
W.C. Deodoriser**

**TWO-WAY PROTECTION**

**LASTING FRESHNESS**

**TROUBLE-FREE**

**Flush**  
— the only deodoriser with stainless wire clip and plastic suction cup which prevents any movement.

**Flush**  
— the only deodoriser with patented reinforcement. Cannot break up.

**Flush**  
— the only deodoriser which freshens and perfumes without any further adjustment.

**NEW**  
**Flush**

*the finest W.C. Deodoriser on the market!*

**BIGGEST VALUE FOR MONEY**  
at 1/9

— and Nationally advertised, of course!

SOLE DISTRIBUTORS  
**THOMPSON & CAPPER LTD.**  
MANUFACTURING CHEMISTS, SPEKE, LIVERPOOL 24

*New and nationally advertised!*

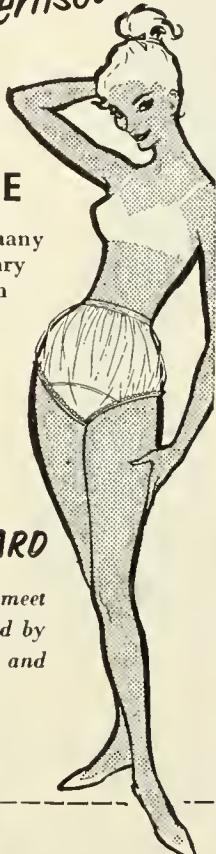
**SANITARY PROTECTION IN LUXURY NYLON LINGERIE**

Women are quick to appreciate the many advantages of Colette No-Belt Sanitary Protection. These dainty white nylon briefs with waterproof gusset and pockets for the towel are more hygienic, convenient and safe—a profitable line for you too!

No belts, hooks or pins

RETAIL 12/3 a pair. 3 sizes.  
Also in Rayon 9/11 a pair. 3 sizes.

**FREE DISPLAY OUTER & SHOWCARD**



Be sure you can meet the immediate demand by sending for details and trade prices to :—

**No Belt**

COSETTE LTD., 28 GOODGE STREET, LONDON, W.I.

**BEST-SELLERS**  
**ALL**  
**the year round!**



**"Sun-tang"**



**'NIAGARA'**  
*Blackcurrant Syrup*

**Sun-tang**—made from whole oranges, sugar and glucose—contains Vitamin C, essential to good health

**Niagara**—made from Blackcurrant juice and sugar—rich in Vitamin C—the perfect drink for young and old alike.

More customers are asking for both these delicious, health-giving drinks. Meet the extra demand by ordering ample stocks NOW and make sure of year-round profits.

**BARNETT & FOSTER LTD.**  
QUEENSBIDGE ROAD, LONDON, E.8. Tel.: CLissold 7132

# ITONA SUGAR CANE MOLASSES

packed in glass jars  
for convenience and  
better protection.

Available in various sizes.

SELLING AGENTS  
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LEYLAND MILLS, WIGAN

## GALIC ACID PYROGALIC ACID

(RESUBLIMED, PURE CRYSTAL AND TECHNICAL)

AND DERIVATIVES

WHOLESALE AND EXPORT ONLY

THE BRITISH DYEWOOD CO. LTD., 19 ST. VINCENT PLACE, GLASGOW, C.I.

**The glamorous**   
**semi-permanent**   
**coloring that**  
**shampoos**  
**color into**  
**the hair**

Inecto are launching a lively new advertising campaign to stimulate the demand for Hair Magic and Hair Magic 'Progressives'. There'll be a great demand for Hair Magic from women of all ages. Young women will want the fashion colors that add a hint of burgundy or copper, a glint of rose or champagne. Older women will want the Progressive Browns that cover up to 50% grey hair, to put the clock back five...ten...fifteen years. And remember how quick and easy Hair Magic is to apply at home.

**do better business with**

**Hair Magic** **BY INECTO**

From all wholesalers **Price 1/8+ P.T. Retail 4/-**

*Advice Bureau:*

INECTO HOUSE, 27 DOVER STREET, LONDON, W.I. (HYDe Park 7541 — 12 lines)



*NOW the first campaign goes into action in the mass-readership newspapers—*

**DAILY MIRROR**  
**DAILY SKETCH**  
**WOMEN'S SUNDAY PAPERS**  
*and* **SELECTED MAGAZINES**

*with big, bright new advertisements to start the boom*

*IN JANUARY*

a bigger campaign, now being planned, will follow up in full colour in "Woman," "Woman's Own" and other mass-circulation weeklies and in the glossy monthlies.

# 'BREKNA' IODISED SALTS

(for the Relief of Rheumatism, etc.)

Retail price 2/6 a Jar. Wholesale price 24/- doz.  
(discount to wholesalers 15%)

## ★ PRE-NATIONAL ADVERTISING OFFER :

Minimum Order 36 Jars charged as 30 Jars—  
Carriage Paid (Value 15/- Extra Profit)

Main Distributors :

**Messrs. I. ROWLAND JAMES LTD.**

Wholesale Chemists. SWANSEA and CARDIFF  
Proprietors : H. P. JENKINS PENYGROES, LLANELLY, CARMARTHENSHIRE

60 Years'  
Repute as  
the Family  
Remedy  
for  
Indigestion



P.A.T.A  
Retail Prices  
1/7, 3/8,  
6/-, 13/9, 25/-  
(including  
tax).

**BOX'S**  
INDIGESTION PILLS  
W. H. BOX, 47 COBOURG ST., PLYMOUTH

# Dyanese FADELESS DYES

3d. STOCKING (except Black) .. 27/- gross  
4½d. COLD WATER, CURTAIN and Black Stocking Dyes .. 41/- gross

Order Dyes and Shade Cards from our Agents  
Gt. Britain: W. B. Cartwright Ltd., Rawdon, Leeds  
N. Ireland: T. M. Mullan & Co., Ltd., 42 Victoria  
Street, Belfast, Eire; May Roberts (Ireland) Ltd.,  
Grand Canal Quay, Dublin, C.6

# "NIPITS"



Available in 3d. packets and 6d. cartons

TEASDALE & CO. LTD., CARLISLE

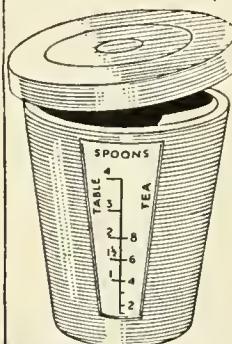
## AMBYTHENE

(BRAND OF POLYTHENE)

### MEDICINE MEASURES

UNBREAKABLE—ACCURATE

with or without close fitting lids  
obtainable from usual distribu-  
tors at 12/1 dozen with lids or  
8/9 dozen without lids.



Wholesalers' supplies  
obtainable direct from

**AMPLEX APPLIANCES (KENT) LTD.**  
19 DARTMOUTH ROAD, HAYES, BROMLEY, KENT  
(RAVensbourne 5531)

OVER 1'9D

PROFIT

IN THE TILL



**KEARSLEYS**  
WIDOW WELCH'S  
PILLS

Over 1'9 BOX PROFIT by ordering  
1 dozen 6/5 size. Bonus given on every  
dozen (13). It pays to push this size.

**C. & G. KEARSLEY LTD.**  
71 DARTMOUTH ROAD, LONDON, S.E.23

FW8

## QUEEN

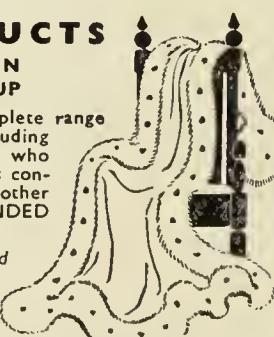
Non Allergic  
BEAUTY PRODUCTS

THE SAFETY FACTOR IN  
EVERY DAY MAKE-UP

Queen beauty products form a complete range  
of toilet and beauty preparations, including  
lipsticks, specially for those women who  
have sensitive skins. Queen products con-  
tain no orris in any form, nor any other  
skin irritants AND ARE RECOMMENDED  
BY THE MEDICAL PROFESSION.

Obtainable from Messrs. Sangers Ltd. and  
Allied Companies, or direct from your  
Wholesaler.

**BOUTALLS CHEMISTS LTD.**  
60 Lambs Conduit St., London, W.C.1



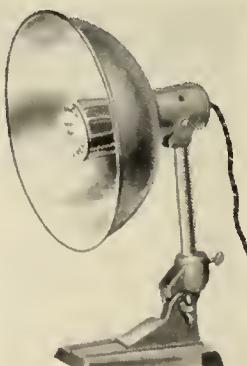
## ERGON

Infra Red Ray  
Appliances

'JUNIOR' MODEL  
Retail Price 77/6

Write for Catalogues and  
Prices to :—

Ergon Electrical Mfg. Co., Ltd.  
Vulcan Road, Bilsiton, Staffs.  
Tel: Bilsiton 42310



# no need to ask!

## TOWEL SALES

from  dispenser

# are good business

(and ever-growing business)



### FOR CHEMISTS ONLY

With a Maw's self-service dispenser in your shop you'll find sales rise far more than with ordinary counter service.

SIZE	TRADE PRICE	RETAIL
0	18/- dozen packets of 12	2/- packet
1	22/6 dozen packets of 12	2/6 packet
2	27/- dozen packets of 12	3/- packet
Standard	18/- dozen packets of 12	2/- packet

Quantity Discount

**4 cases  $2\frac{1}{2}\%$  12 cases  $5\%$  24 cases  $7\frac{1}{2}\%$**

Each case contains ONLY 3 dozen packets

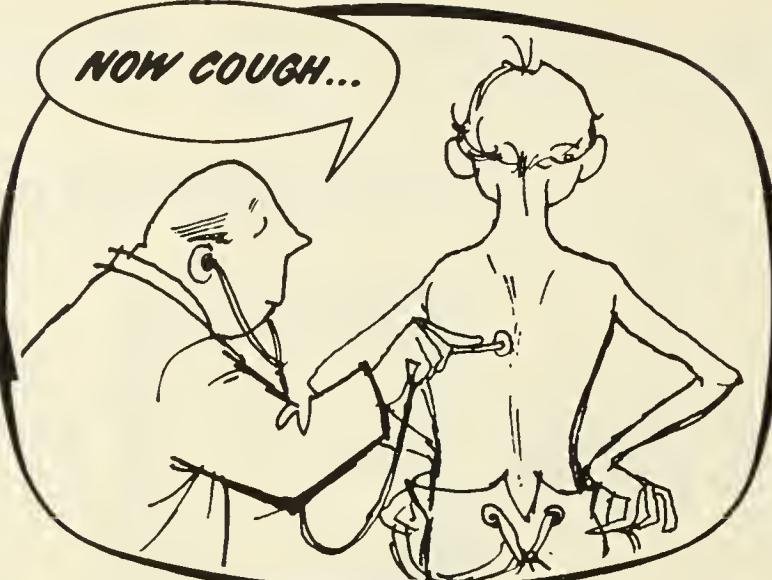
### FREE TOWEL UNIT

Containing either 36 standard size COTTON-WOOL TOWELS, or 36 SOLUBLE TOWELS (each unit counts as one case towards discount)

Maw's representative will give you all the details about our cash incentive shop advertising scheme.

These men

NOW COUGH...



will be seen

I DON'T...  
I TAKE  
OWBRIDGES!



ON TV SCREENS 48,272,500 TIMES AND IN 115,601,869 NEWSPAPERS

THEY WILL FEATURE IN THE

biggest ever advertising campaign for

# Owbridge's

LUNG TONIC AND PASTILLES

BE READY! STOCK UP NOW! STOCK AND SELL!

W. T. OWBRIDGE LIMITED • OSBORNE STREET • HULL



# The CHEMIST AND DRUGGIST

## CLASSIFIED ADVERTISEMENTS

Telephone: CENtral 6565

Specially spaced Advertisements, including:—Public and Legal Notices, Sale by Auction, Appointments, Contract Work, Patents, Partnerships, 18/- per  $\frac{1}{2}$  inch minimum and pro rata. Box 2/-, Clearances and Wants, Businesses for Disposal and Wanted, Premises, Agents Wanted, Agencies Wanted, Miscellaneous, 17/6 for 36 words minimum; then 4d. per word. Box 2/-, Situations Vacant, 12/- for 36 words minimum, then 4d. per word. Box 2/-, Situations Wanted, 3/- for 18 words minimum; then 2d. per word. Box 1/-.

Address Box Number Replies to: THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2

## ORRIDGE & COMPANY

**CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL**  
**BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF**

### APPOINTMENTS

#### BROOKWOOD HOSPITAL, KNAPHILL, WOKING

Assistant-in-Dispensing

Applications are invited for the above post. The successful candidate will be required to work under the supervision of the Chief Pharmacist, who is responsible for the preparation and issue of drugs and dressings for about 1,750 patients.

Salary scale £170 p.a. at age 16 years rising to £375 at age 22 years or over rising to a maximum of £490 p.a. (plus £20 p.a. for an approved qualification).

Professional and Technical Council B of Whitley Council conditions apply to the appointment which is subject to the provision of the National Health Service Superannuation Regulations.

The successful candidate will be required to pass a medical examination.

Accommodation available for female candidate for which a charge of £2 8s. per week will be made.

Applications giving particulars of age, experience and qualifications, together with names of two referees to the Physician Superintendent, as soon as possible.

C 417

#### BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS (461 beds)

Assistant-in-Dispensing

required. Whitley salary scale with London Weighting; new well-equipped department. Hospital convenient to Northern Line (High Barnet) station. Apply to Hospital Secretary, with details of experience and qualifications, and names of two referees.

C 434

#### CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist and Pharmacist

required at Bethnal Green Hospital (350 Acute beds). The department has recently been modernised and is approved for training students. N.H.S. Scale within the range £680-£870 for Senior Pharmacist and £600-£815 for Pharmacist, plus appropriate higher qualification allowance. Apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2.

C 344

#### BRISTOL—SOUTHMEAD GENERAL HOSPITAL GROUP MANAGEMENT COMMITTEE

Appointment of Group Pharmacist

Applications are invited from suitably qualified persons for the appointment of Group Pharmacist.

Salary scale £900-£1,285 per annum plus higher qualification allowance, if applicable (Whitley Council conditions).

The person appointed will be Chief Pharmacist at Southmead Hospital, responsible for the Syringe Service at that hospital, and also for the pharmaceutical services for other hospitals and clinics in the Group. Southmead Hospital is the Obstetric School of the University of Bristol and is associated with the University Department of Child Health and Pediatrics. Applications on forms to be obtained from the undersigned, must be submitted not later than December 15, 1958.

C. C. HANCOCK,  
Group Secretary.

Southmead Hospital,  
Bristol. C 8661

#### CANADIAN RED CROSS MEMORIAL HOSPITAL, TAPLOW, Nr. MAIDENHEAD

Assistant-in-Dispensing

Applications are invited for the above post, vacant January 1. Salary on scale, £375 p.a. rising to £490 p.a. Applications to Secretary, stating age, qualifications and experience with names of two referees.

C 8669

#### CLACTON & DISTRICT HOSPITAL

Dispenser (part-time)

required for 18½ hours per week. Salary proportionate to Whitley Council Scale, which rises to £490 per annum with extra rates for additional qualifications, and responsibilities. Single-handed post under Chief Pharmacist of Essex County Hospital, Colchester.

Applications to Group Secretary, Colchester Group Hospital Management Committee, 14 Pope's Lane, Colchester. C 8645

#### CLAYBURY HOSPITAL (FOR NERVOUS AND MENTAL DISORDERS),

#### WOODFORD BRIDGE, ESSEX

Chief Pharmacist (Category III) or Locum Post vacant January 1959. Whitley Council salary (including London Weighting) and conditions of service are applicable.

Applications with details of experience and the names of two referees to be addressed to the Physician Superintendent.

C 8621

#### 184 STRAND, W.C.2

Tel: TEMple Bar 9212/3 &amp; 6340

#### DURHAM HOSPITAL MANAGEMENT COMMITTEE

There are vacancies for the following grades of staff in the Pharmacy Department of the Durham Group of Hospitals:

Deputy Chief Pharmacist (Category IV)  
£675 a year year by annual increments to

£910 a year

Pharmacist (Basic Grade)

£580 a year by annual increments to

£785 a year

The Pharmacy Department is organised on a group basis and is based on Dryburn Hospital, Durham. This is a modern well equipped department which offers good experience in the full range of hospital pharmacy.

Post-graduate students will be considered for the junior vacancy.

Apply with particulars of previous experience, age, qualifications and names of two referees to the Group Secretary, Dryburn Hospital, Durham. C 8677

#### KING EDWARD VII HOSPITAL, WINDSOR

(Category III Hospital)

Pharmacist

required immediately. Whitley salary. Applications giving details of service and names of three referees to Secretary.

C 8668

#### METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8

Senior Pharmacist and Pharmacist

for modern department. Permanent posts. Salary scales £680 to £870 p.a. for Senior Pharmacist and £600 to £815 p.a. for Pharmacist plus higher qualification allowance. Apply with details of age, training and experience to the Hospital Secretary. C 433

#### METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8

Locum Pharmacist

required immediately, apply to Hospital Secretary.

C 435

#### SELLY OAK HOSPITAL, BIRMINGHAM, 29

Deputy Chief Pharmacist (Category V) required as soon as possible. Duties include supervision of department and sterile production. Salary within Whitley Council Scale: £725-£990. State particulars, naming two referees, in application to Administrator. C 8685

## ERNEST J. GEORGE & CO.

329 HIGH HOLBORN, LONDON, W.C.1.

*Professional Valuers to the Pharmaceutical Trade.—Wholesale, Retail and Hospital Stocks. Branches throughout England and Scotland.*

Telephone: HOLBORN 7406/7

**Appointments—Continued****NOTTINGHAM No. 2 HOSPITAL MANAGEMENT COMMITTEE**

Deputy Chief Pharmacist (Cat. V)  
required for the Nottingham City Hospital  
(811 beds)

Applications are invited for the above post, which will become vacant early in 1959. The City Hospital is a Group hospital and caters for the pharmaceutical requirements of a number of subsidiary hospitals in the area. Applicants should have a wide experience in hospital pharmacy, and be capable of controlling staff. A knowledge of surgical instruments is desirable. The successful applicant will work under the Group Chief Pharmacist and will be required to assume complete control in his absence. Further particulars regarding the post can be obtained on application to the Group Chief Pharmacist. Whitley conditions and salary. Applications, stating age, qualifications and full particulars of previous experience, together with the names of two referees, should be sent to the Group Secretary, The Sherwood Hospital, Nottingham, as soon as possible. C 8674

**QUEEN'S HOSPITAL  
Geriatric Unit — 410 Beds)**

Pharmacist—part-time—24 hours weekly  
Pharmacy is linked with that of Mayday Hospital and under control of Chief Pharmacist of that Hospital.  
Canteen on Hospital premises.  
Whitley Council Salary Scales.  
Application Form available from the undersigned.

GEORGE A. PAINES,  
General Hospital, Group Secretary,  
London Road, Croydon. C 8654

**ST. BARTHOLOWEWS HOSPITAL,  
LONDON, E.C.1****Locum Pharmacist**

Immediate vacancy exists for a period of four months. Salary by negotiation. Applications, in writing, to Chief Pharmacist. C 8670

**ST. BARTHOLOMEW'S HOSPITAL,  
LONDON, E.C.1****Pharmacist**

A vacancy will occur in mid-January, 1959, for a Pharmacist. Salary according to Whitley Council scales. Write, giving the names of two referees, to the Chief Pharmacist. C 8671

**ST. MARK'S HOSPITAL,  
CITY ROAD, LONDON, E.C.1,  
Post-graduate Teaching Hospital****Pharmacist**

Applications invited for the appointment of Pharmacist at this surgical hospital (rectal and colonic). Whitley salary scale £580—£785 p.a., plus London Weighting. Additional £25 if holding higher qualification. Service in retail pharmacy, etc., taken into account in deciding commencing salary. Detailed applications, names two referees, to Secretary. C 8673

**WEST SUFFOLK HOSPITAL  
MANAGEMENT COMMITTEE****Chief Pharmacist (Category III)**

Required for Group duties, mainly at WEST SUFFOLK GENERAL HOSPITAL. Whitley Council terms and conditions. Modern, recently reconstructed department. Post vacant January. Applications with full details and including names of referees to the Group Secretary, 36 Mill Road, Bury St. Edmunds. C 8672

**WEST MIDDLESEX HOSPITAL,  
ISLEWORTH, MIDDLESEX****Assistant-in-Dispensing**

required in Pharmaceutical Department for varied duties. Salary £395 per annum at age 22, rising to £520 (additional payment of £20 per annum for suitable qualification). Apply, giving names of two referees, to the Chief Pharmacist. C 431

**ST. LEONARD'S HOSPITAL,  
NUTTALL STREET, LONDON, N.1****Locum Pharmacist**

required for one week commencing December 8, 1958. Salary up to 16 gns. per week. Apply Chief Pharmacist, St. Leonard's Hospital, or Ring SHOreditch 3311. C 8679

**WEST MIDDLESEX HOSPITAL,  
ISLEWORTH, MIDDLESEX****Pharmacist**

for Main Pharmaceutical Department. Salary £580—£785 per annum, plus London Weighting. Whitley conditions and assimilation point in salary scale according to experience. Apply giving age, qualifications and experience, with names of referees to the Chief Pharmacist. C 432

**SITUATIONS VACANT****RETAIL HOME**

**CITY (E.C.1)** Pharmacist required to manage new pharmacy. Excellent basic salary, plus commission. This is a real opportunity with prospects for a reliable, keen and energetic pharmacist. Please send full particulars which will be treated as strictly confidential to Box C 1869.

**EXPERIENCED** and energetic Manager-Fitter for London West End Surgical business. Good salary and prospects. Write stating age, experience and salary required to Box C 8650.

**EAST MIDLANDS.** Pharmacist required to manage our branch at Stamford. This is a very pleasant area and an attractive, spacious self-contained flat is available at a reasonable rent. Salary £1,000 per annum inclusive. This is a permanent progressive post and is superannuated (transfer clause in operation). Apply to Peterborough Co-operative Chemists, Ltd., Park Road, Peterborough. C 1892

**OLDHAM CO-OPERATIVE CHEMISTS, LTD.**, have a vacancy for a Pharmacy Branch Manager, either sex. Modern accommodation available if necessary. Superannuation. Half-day Tuesday. Saturday close 4 p.m. Salary and other emoluments at least £960. Applications stating age, experience, etc., to be forwarded to Oldham Co-operative Chemists, Ltd., King Street, Oldham. C 1885

**PHARMACIST** required for new chemists, Tooting Broadway. Excellent opportunity for the right man. Please forward details of experience to 158/162 Tooting High Street, S.W.17. Balham 6832. C 1888

**WHOLESALE****COSMETIC REPRESENTATIVE**

Helena Rubinstein requires a young man with cosmetic experience as a sales representative in Wales and Northern Ireland. Car provided. Top age limit twenty-eight. Exceptional opportunity for permanent career in specialised cosmetics. Write in confidence giving qualifications, education, career to date, and salary required to: Helena Rubinstein, 3 Grafton Street, London, W.1. Mark envelope sales representative. Only applicants required for interview will be notified. C 8681

**EUCRYL GROUP OF COMPANIES** requires a Sales Executive to work in close collaboration with General Manager. Position calls for man preferably under 40 years of age; he will be expected to travel throughout the U.K. and will be expected, after a probationary period, to reside near the Company's Headquarters at Southampton. Write giving full details of career to date and salary required to General Manager, Eucryl, Ltd., Oakley Road, Southampton. All replies treated in confidence. C 8675

**EXPERIENCED SUNDRY BUYER** required for Chemist trade. Good salary and prospects with a view to taking over management of the department. Apply Box C 8665.

**INTERESTING POST** available for young man in new but expanding market research organisation. A knowledge of the pharmaceutical industry an advantage but not essential. Must have had at least two years' experience in market research and analysis. Must have a degree or similar qualification in economics or statistics. Good pay according to age and experience. Box C 1887.

**MEDICAL REPRESENTATIVES**

Astrapharm, Ltd., a subsidiary of A. B. Astra, Sweden, with office near London, requires experienced medical representatives for three territories: North of England, the Midlands, and the London area. Salary, car and expenses provided.

Full particulars including age, experience and present salary to Box No. APA, I. M. S., Ltd., 28 St. James's Place, London, S.W.1. C 8684

**ORDER CLERKS.** The British Drug Houses, Ltd., require clerks with a sound knowledge of ethical and proprietary medicines for Telephone order and pricing work. Applicants should have experience in the wholesale distribution trade. Five-day week. Canteen. Apply in writing stating age, experience and salary required to the Staff Manager, The British Drug Houses, Ltd., Graham Street, City Road, London, N.1. C 8649

**REPRESENTATIVE**

A well-known firm of manufacturing chemists requires an active representative to interview doctors, hospitals and chemists in the

**EASTERN COUNTIES AND  
EAST LONDON POSTAL DISTRICTS**  
Car and expenses provided.

**Pension Scheme.**

Please write, in confidence, giving age, full details of experience and qualifications, and state salary required. Our own representatives have been advised. Write Box C 8682.

**STAFFORD ALLEN & SONS, LTD.**, require a pharmacist, aged 25/35, for new and interesting development work for the Food Industry. The position offers much scope for advancement. Write giving full details to Director TS, Wharf Road, London, N.1. C 8676

**SURGICAL AND ORTHOPÆDIC APPLIANCE TECHNICIAN**, with established connections and used to calling on hospitals, required by an old-established South Midland firm of Surgical Technicians. Write giving details of career, qualifications and area at present being covered, to Box C 1891.

**THE BRITISH DRUG HOUSES LTD.**  
require a Young Male  
**PHARMACIST**

as Assistant in Galenical Laboratory. The post offers a good opportunity for a person wishing to pursue a career in the pharmaceutical industry.

There is a superannuation fund (contributory) and the Company operates Life Assurance and Profit Sharing schemes.

Write stating age, qualifications and experience, if any, to the Personnel Manager (Ref. WW), The British Drug Houses Ltd., Graham Street, London, N.1. C 8657

**VETERINARY**

Representative required to call on vets in Southern area. Well-established territory. Salary, car and expenses. Apply to Box C 8642.

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C 8666

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C 8683

### Situations Vacant—Continued

### WHOLESALE (OVERSEAS)

#### C I B A

#### REPRESENTATIVE — S.E. ASIA

Young pharmacist required as resident representative in S.E. Asia. Applicants must be single men of British nationality. Duties will involve extensive air travel and include calling on doctors and hospitals as well as the supervision of local medical representatives. Previous experience is unnecessary as the selected man will be trained. Progressive salary and pension scheme.

Apply in writing with full particulars of age, education, qualifications and experience, and enclosing a recent photograph, to CIBA, Limited, Basle, Switzerland.

C 8680

### WHOLESALE

**DISPLAY DESIGNER** (man, 26) seeks position with cosmetic firm or similar. Pref. London, but willing to travel. Box C 1895.

**EXPERIENCED REPRESENTATIVE**, pharmacy trained, 25 years covering South Wales and West England, desires change. Bonded. Reliable agencies considered. Resident Bath. Box C 1882.

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**PRODUCTION**. Pharmacist, 43, seven years smaller scale production experience, seeks position next year with progressive firm producing pharmaceuticals, chemical or sterile products on larger scale plant. Eastern or Central counties advantageous but not essential. Box C 1894.

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C 353

### SITUATIONS WANTED

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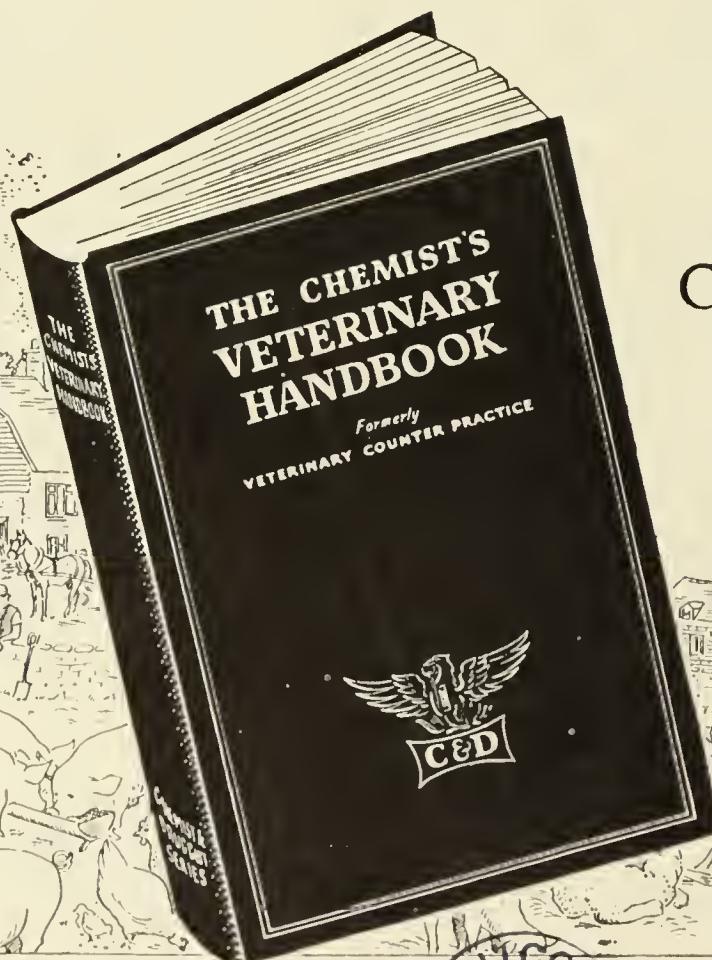
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